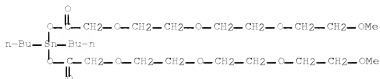


REGISTRY RECORDS FOR COMPOUNDS OF CLAIMS 3 & 4

=> d 115 1-2

L15 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2010 ACS on STN
 RN 854279-96-2 REGISTRY
 ED Entered STN: 08 Jul 2005
 CN 2,5,8,11,14,16,19,22,25,28-Decaoxa-15-stannanonacosane,
 15,15-dibutyl-13,17-dioxo- (9CI) (CA INDEX NAME)
 MF C26 H52 O12 Sn
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L15 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2010 ACS on STN
 RN 3669-02-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)

OTHER CA INDEX NAMES:

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis(lauroyloxy)- (8CI)

CN Lauric acid, tetrabutyl-distannoxanylene deriv. (8CI)

CN Oxybis[dibutyltin laurate] (6CI)

CN Tin, oxybis[dibutyl(lauroyloxy)- (7CI)

OTHER NAMES:

CN 1,1,3,3-Tetrabutyl-1,3-bis(lauroyloxy)distannoxane

CN Bis(dibutyltin laurate) oxide

CN Bis(lauroyloxydibutyltin) oxide

CN SB 65

CN Stann SB 65

CN Stann SCAT 1

CN Tegokat 225

DR 114797-57-8, 35378-40-6

MF C40 H82 O8 Sn2

CI COM

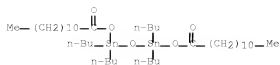
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM,

IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL, USPATOLD

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

76 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

76 REFERENCES IN FILE CAPLUS (1907 TO DATE)

STRUCTURE SEARCH

=> => d his 133

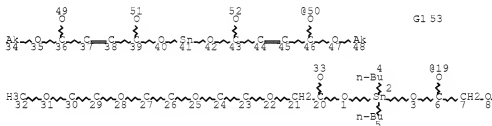
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L33 37 S L25 OR L32 OR L29

=> d que 133

L2 3 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON (3669-02-1/BI
OR 854279-95-1/BI OR 854279-96-2/BI)L3 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L2 AND C40
H82 O5 SN2/MF

L4 STR



Page 1-A



Page 1-B

VAR G1=50/19

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 19

CONNECT IS E1 RC AT 33

CONNECT IS E1 RC AT 34

CONNECT IS E1 RC AT 48

CONNECT IS E1 RC AT 49

CONNECT IS E1 RC AT 50

CONNECT IS E1 RC AT 51

CONNECT IS E1 RC AT 52

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M2-X8 C AT 34

ECOUNT IS M2-X8 C AT 48

GRAPH ATTRIBUTES:

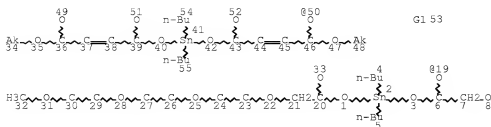
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NUMBER OF NODES IS 53

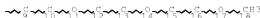
STEREO ATTRIBUTES: NONE

L6 73 SEA FILE=REGISTRY SSS FUL L4

L10 STR



Page 1-A



Page 1-B

VAR G1=50/19

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 19
 CONNECT IS E1 RC AT 33
 CONNECT IS E1 RC AT 34
 CONNECT IS E1 RC AT 48
 CONNECT IS E1 RC AT 49
 CONNECT IS E1 RC AT 50
 CONNECT IS E1 RC AT 51
 CONNECT IS E1 RC AT 52

DEFAULT MLEVEL IS ATOM

DEFAULT ELEVEL IS LIMITED

ECOUNT IS M2-X8 C AT 34

ECOUNT IS M2-X8 C AT 48

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 55

STEREO ATTRIBUTES: NONE

L12 26 SEA FILE=REGISTRY SUB=L6 \$\$\$ FUL L10
 L13 1 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L2 AND L12
 L14 27 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L3 OR L12
 L15 2 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L3 OR L13
 L16 76 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L15
 L17 272 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L14
 L18 272 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L16 OR L17
 L20 QUE SPE=ON ABB=ON PLU=ON PY=<2004 NOT P/DT
 L21 QUE SPE=ON ABB=ON PLU=ON (PY=<2004 OR PRY=<2004 OR
 AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT
 L22 253 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L18 AND ((L20
 OR L21))
 L23 82 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L22(L) (CAT OR
 CATAL?)
 L24 QUE SPE=ON ABB=ON PLU=ON ?SILOXAN?
 L25 35 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L23 AND L24
 L26 QUE SPE=ON ABB=ON PLU=ON POLYMI? OR CURE# OR CURING
 # OR CURAB? OR CROSS(W)LINK? OR CROSSLINK?
 L27 67 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L22(L) L26
 L28 QUE SPE=ON ABB=ON PLU=ON SILICON?(3A) (RUBBER OR ELA
 STOMER)
 L29 6 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L23 AND L28
 L30 53 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L27 AND L23
 L32 32 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L25 AND L30
 L33 37 SEA FILE=HCAPLUS SPE=ON ABB=ON PLU=ON L25 OR L32 OR
 L29

INVENTOR SEARCH RESULT

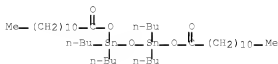
=> d 138 1 ibib ed abs hitstr hitind

L38 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2005:549748 HCAPLUS Full-text
 DOCUMENT NUMBER: 143:79522
 TITLE: One-component polyorganosiloxane
 compositions containing tin ester
 catalysts for manufacture of
 crosslinked silicone
 rubbers
 INVENTOR(S): Chaussade, Marc; Guenouni,
 Nathalie
 PATENT ASSIGNEE(S): Rhodia Chimie, Fr.
 SOURCE: Fr. Demande, 28 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

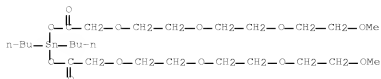
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2864096	A1	20050624	FR 2003-15286	2003 1223
			<--	
FR 2864096	B1	20070223		
WO 2005071007	A1	20050804	WO 2004-FR3327	2004 1221
			<--	
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RN:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, NI, TD, TG			
EP 1697454	A1	20060906	EP 2004-816457	2004 1221
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EP 1697454	B1	20090527		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS			
CN 1906240	A	20070131	CN 2004-80040628	2004 1221
			<--	
JP 2007515537	T	20070614	JP 2006-546243	2004 1221
			<--	
AT 432312	T	20090615	AT 2004-816457	2004 1221
			<--	

ES 2328154	T3	20091110	ES 2004-816457	2004 1221
KR 2007014119	A	20070131	KR 2006-714894	2006 0724
US 20070282088	A1	20071206	US 2007-584396	2007 0328
RITY APPLN. INFO.:			FR 2003-15286	A 2003 1223
			WO 2004-FR3327	W 2004 1221

CN	Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]-	(CA
	INDEX NAME)	



CN 2,5,8,11,14,16,19,22,25,28-Decaoxa-15-stannanonacosane,
15,15-dibutyl-13,17-dioxo- (9CI) (CA INDEX NAME)



IC ICM C08K005-098
 ICS C08J003-24; C08L083-06; C09K003-10
 CC 39-10 (Synthetic Elastomers and Natural Rubber)
 ST storage stable one component moisture curable
 silicone rubber; tin ester crosslinking
 catalyst moisture curable silicone
 rubber

IT Vulcanization accelerators and agents
 (one-component polyorganosiloxane compns. containing tin
 ester catalysts for manufacture of crosslinked
 silicone rubbers)

IT Silicone rubber, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (one-component polyorganosiloxane compns. containing tin
 ester catalysts for manufacture of crosslinked
 silicone rubbers)

IT 3689-02-1, Tegokat 225
 RL: CAT (Catalyst use); USES (Uses)
 (Tegokat 225; one-component polyorganosiloxane
 compns. containing tin ester catalysts for manufacture of
 crosslinked silicone rubbers)

IT 854279-96-2
 RL: CAT (Catalyst use); USES (Uses)
 (one-component polyorganosiloxane compns. containing tin
 ester catalysts for manufacture of crosslinked
 silicone rubbers)

IT 854279-95-1P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (rubber; one-component polyorganosiloxane compns.
 containing tin ester catalysts for manufacture of
 crosslinked silicone rubbers)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
 THIS RECORD (1 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

STRUCTURE SEARCH RESULTS

=> d his l39

(FILE 'HCAPLUS' ENTERED AT 15:59:01 ON 04 MAR 2010)
 L39 36 S L33 NOT L38

FILE 'REGISTRY' ENTERED AT 16:13:05 ON 04 MAR 2010

FILE 'HCAPLUS' ENTERED AT 16:14:37 ON 04 MAR 2010

=> d l39 l-36 ibib ed abs hitstr hitind

L39 ANSWER 1 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2004:9133 HCAPLUS Full-text

DOCUMENT NUMBER: 141:244945

TITLE: The effects of organotin catalysts
 on hydrolytic condensation of
 polymethylsiloxane oligomer and
 moisture cure of the coatings

AUTHOR(S): Iwasawa, Akira; Aoki, Ryuichi; Sasaki,
 Hiroharu; Takahashi, Toshiya; Omoto, Hiroaki

CORPORATE SOURCE: Technical Department, Fundamental Research
 Laboratories 2nd Division, Dai Nippon Toryo
 Co., Ltd., Ohtawara-city, Tochigi-pref.,
 324-0036, Japan

SOURCE: Shikizai Kyokaishi (2003), 76(10),
 373-379

CODEN: SKYQAO; ISSN: 0010-180X

PUBLISHER: Shikizai Kyokai

DOCUMENT TYPE: Journal

LANGUAGE: English

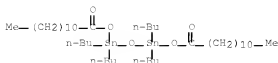
ED Entered STN: 07 Jan 2004

AB The poly(methylsiloxane) oligomer (P-MTS) was synthesized by hydrolytic condensation of trimethoxy(methyl)silane. The effect of mono- and bis-organotin carboxylate catalysts on hydrolytic condensation was studied in terms of pot life time and tack free time of P-MTS coatings. The viscosity and tack free time of P-MTS were measured with IR and NMR spectral methods. The condensation reaction proceeds faster with bis-organotin catalysts than with mono-organotin, depending on the concentration of active species generated from hydrolysis of the organotin catalysts. The tack free time was correlated with the functional group of organotin carboxylates. Due to steric hindrance of the functional group, dibutyltin dilaurate is less easily hydrolyzed to inactive dibutyltin oxide compared to dibutyltin diacetate. This results in the lauroyloxy group being more effective in catalysis than the acetoxy group.

IT 3669-02-1, Bis(lauroyloxydibutyltin) oxide
 RL: CAT (Catalyst use); USES (Uses)
 (mechanism of organotin catalysts in hydrolytic
 condensation and moisture cure of poly(
 methylsiloxane) coatings)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)



CC 42-3 (Coatings, Inks, and Related Products)

ST polymethylsiloxane prepn hydrolytic polymn organotin
 catalyst substituent effect

10/584,396-323714-EIC SEARCH

IT Polymerization catalysts
(hydrolytic condensation; mechanism of organotin
catalysts in hydrolytic condensation and moisture
cure of poly(methylsiloxane) coatings)

IT Steric hindrance
Substituent effects
Viscosity
(mechanism of organotin catalysts in hydrolytic
condensation and moisture cure of poly(
methylsiloxane) coatings)

IT 77-58-7, Dibutyltin dilaurate 1067-33-0, Dibutyltin diacetate
3669-02-1, Bis(lauroxydibutyltin) oxide 5967-09-9,
Bis(acetoxydibutyltin) oxide
RL: CAT (Catalyst use); USES (Uses)
(mechanism of organotin catalysts in hydrolytic
condensation and moisture cure of poly(
methylsiloxane) coatings)

IT 9004-73-3, Poly(methylsiloxane) 25498-03-7,
Trimethoxy(methyl)silane homopolymer
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); TEM (Technical or engineered material use); PROC
(Process); USES (Uses)
(mechanism of organotin catalysts in hydrolytic
condensation and moisture cure of poly(
methylsiloxane) coatings)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L39 ANSWER 2 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2001:703485 HCAPLUS Full-text
DOCUMENT NUMBER: 135:243111
TITLE: Weather-resistant room-temperature-
curable acrylic compositions
INVENTOR(S): Yamauchi, Yasushi
PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	
JP 2001261915	A	20010926	JP 2000-70719	2000 0314

PRIORITY APPLN. INFO.: <--
JP 2000-70719
2000
0314

ED Entered STN: 26 Sep 2001

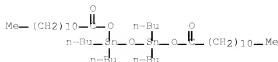
AB The compns. comprise (meth)acrylate polymers having hydrolytically crosslinkable silyl
group terminals, hindered amine light stabilizers with mol. weight ≥ 2000 , and
crosslinking catalysts. Thus, a composition comprising a hydrolyzable silyl group-
containing (meth)acrylate polymer (MA 903), a light stabilizer (Chimassorb 2020 FDL;
mol. weight 2600-3400), bis(dibutyltin laurate) oxide, and a UV-absorber (Tinuvin 327)
showed no crack for 5500 h in a sunshine weather meter test.

IT 3669-02-1, Bis(dibutyltin laurate) oxide
RL: CAT (Catalyst use); USES (Uses)
(crosslinking catalyst; weather-resistant
room-temperature-curable acrylic compns.)

RN 3669-02-1 HCAPLUS

10/584,396-323714-EIC SEARCH

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
INDEX NAME)



IC ICM C08L033-04
ICS C08F008-42; C08F220-10; C08K005-00; C08K005-3435
CC 37-6 (Plastics Manufacture and Processing)
ST acrylic hydrolysis silane room temp crosslink; weather
resistance hindered amine acrylic resin
IT Polysiloxanes, preparation
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); PREP (Preparation); USES (Uses)
(acrylic; weather-resistant room-temperature-curable
acrylic compns.)
IT Amines, uses
RL: MOA (Modifier or additive use); USES (Uses)
(hindered, light stabilizer; weather-resistant room-temperature-
curable acrylic compns.)
IT Acrylic polymers, preparation
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); PREP (Preparation); USES (Uses)
(polysiloxane-; weather-resistant room-temperature-
curable acrylic compns.)
IT Crosslinking catalysts
UV stabilizers
(weather-resistant room-temperature-curable acrylic
compns.)
IT 3864-99-1, Tinuvin 327
RL: MOA (Modifier or additive use); USES (Uses)
(UV-stabilizer; weather-resistant room-temperature-curable
acrylic compns.)
IT 3669-02-1, Bis(dibutyltin laurate) oxide
RL: CAT (Catalyst use); USES (Uses)
(crosslinking catalyst; weather-resistant
room-temperature-curable acrylic compns.)
IT 360785-62-2, Chimassorb 2020FDL
RL: MOA (Modifier or additive use); USES (Uses)
(light stabilizer; weather-resistant room-temperature-curable
acrylic compns.)
IT 351415-96-8, MA 903
RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
(weather-resistant room-temperature-curable acrylic
compns.)

L39 ANSWER 3 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001:68177 HCAPLUS Full-text

DOCUMENT NUMBER: 134:132997

TITLE: Acrylic silicone-type topcoat compositions and
products coated therewith

INVENTOR(S): Matsuo, Yoichi; Tamai, Hitoshi; Hanbu,
Toshiro; Arioka, Jiro; Ando, Naotami

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 19 pp.

SOURCE: CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001026740	A	20010130	JP 2000-93741	2000 0330
PRIORITY APPLN. INFO.:			JP 1999-132540	A 1999 0513

ED Entered STN: 30 Jan 2001

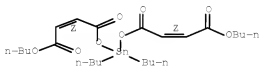
AB The compns. comprise (A) vinyl copolymers containing alkoxysilyl groups and branched and/or cyclic structures and (B) weak solvents. Thus, a composition, with good solubility in weak solvents, containing γ -methacryloxypropyltrimethoxysilane (I)-Me methacrylate (II)-i-Bu methacrylate (III)-lauryl methacrylate (IV) copolymer, I-II-III-IV-styrene-unsatd. polyester (Hariphthal 332-45) copolymer, naphtha, Et silicate, Me orthoacetate, dodecylmercaptan, a silane coupler, a catalyst, and a pigment was applied on an Al plate to give a coating showing good gloss, adhesion to the substrate, and soiling and weather resistance.

IT 15546-16-4, Dibutyltin bis(butyl maleate)
 RL: CAT (Catalyst use); USES (Uses)
 (catalyst; acrylic silicone-type topcoat compns. with good soiling and weather resistance)

RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C09D143-04
 ICS C09D133-04

CC 42-10 (Coatings, Inks, and Related Products)

ST acrylic siloxane topcoat soiling resistance; naphtha
 silyl acrylic siloxane coating; weather resistance
 acrylic siloxane coating

IT Crosslinking catalysts
 (acrylic silicone-type topcoat compns. with good soiling and weather resistance)

IT Polysiloxanes, uses
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 PRP (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)
 (acrylic-polyester-; acrylic silicone-type topcoat compns. with good soiling and weather resistance)

IT Polyesters, uses
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 PRP (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)
 (acrylic-polysiloxane-; acrylic silicone-type topcoat compns. with good soiling and weather resistance)

IT Crosslinking catalysts
 (neg., mercapto compds.; acrylic silicone-type topcoat compns. with good soiling and weather resistance)

IT Polysiloxanes, uses

10/584,396-323714-EIC SEARCH

RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 PRP (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)

(polyester-, acrylic-silicate-; acrylic silicone-type topcoat
 compns. with good soiling and weather resistance)

IT Polyesters, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 PRP (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)

(polysiloxane-, acrylic-silicate-; acrylic
 silicone-type topcoat compns. with good soiling and weather
 resistance)

IT 1343-98-2DP, Silicic acid, alkyl esters, polymers with acrylic
 polyester-siloxanes 321999-31-9P 321999-32-0P
 322391-82-2P, N,N-Dimethylacrylamide-Ethyl silicate 48;Hariphthal
 332-45;isobutyl methacrylate-lauryl

methacrylate-γ-methacryloxypropyltrimethoxysilane-methyl
 methacrylate-styrene copolymer 322391-83-3P,
 N,N-Dimethylacrylamide-Ethyl silicate 48-Hariphthal
 332-45-isobutyl methacrylate-lauryl

methacrylate-γ-methacryloxypropyltrimethoxysilane-methyl
 methacrylate-stearyl methacrylate-styrene-tert-butyl methacrylate
 copolymer 322391-84-4P, Cyclohexyl

methacrylate-N,N-dimethylacrylamide-Ethyl silicate 48-Hariphthal
 332-45-2-hydroxyethyl methacrylate-isobutyl methacrylate-lauryl
 methacrylate-γ-methacryloxypropyltrimethoxysilane-methyl

methacrylate-styrene copolymer 322391-85-5P, Acrylamide-Ethyl
 silicate 48-Hariphthal 332-45-isobutyl methacrylate-lauryl
 methacrylate-γ-methacryloxypropyltrimethoxysilane-methyl

methacrylate-styrene copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 PRP (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)

(acrylic silicone-type topcoat compns. with good soiling and
 weather resistance)

IT 10039-33-5, Dioctyltin bis(2-ethylhexyl maleate)
 15546-16-4, Dibutyltin bis(butyl maleate) 29881-72-9,
 Dibutyltin bis(oleyl maleate)

RL: CAT (Catalyst use); USES (Uses)

(catalyst; acrylic silicone-type topcoat compns. with
 good soiling and weather resistance)

L39 ANSWER 4 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STM

ACCESSION NUMBER: 2000:817618 HCAPLUS Full-text

DOCUMENT NUMBER: 134:5985

TITLE: Low temperature-curable
 alkoxysilyl-containing vinyl resin
 compositions with long pot life and good
 appearance and resistance to weather and
 soiling

INVENTOR(S): Matsuo, Yoichi; Tamai, Hitoshi; Nanbu,
 Toshiro; Kawaguchi, Hiroto; Ando, Naotami
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000319578	A	20001121	JP 1999-132541	1999 0513

10/584,396-323714-EIC SEARCH

JP 2008138216

A

20080619

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JP 2007-336917

2007

1227

PRIORITY APPLN. INFO.:

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JP 1999-132541

A3

1999

0513

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ED Entered STN: 21 Nov 2000

AB The compns. comprise: (A) an alkoxy silyl-containing vinyl copolymer, (B) an organometallic compound such as organic tin compound at an amount of 0.1-20% (based on A), (C) a weak solvent such as aliphatic hydrocarbon, (D) a Si compound represented by a general formula: (R4O)4-bSiR5b, wherein R4, R5=Cl-10 alkyl, aryl or aralkyl, or its partially hydrolyzed compound, (E) a silane coupling agent such as aminosilane and epoxysilane at an amount of 0.1-300%, (F) a hydrolyzable ester at an amount of 0.1-150%, and (G) a SH-containing hydrocarbon or/and mercaptosilane compound. Thus, heating the mixture of γ -methacryloxypropyltrimethoxysilane 7.9, Me methacrylate 34.6, iso-Bu methacrylate 17.0 and lauryl methacrylate 40.5 parts at 110° in xylene and MePh containing AIBN gave a resin A, 100 parts of which was mixed with 20 parts preformed dilution mixture of dibutyltin bis(Bu maleate) 5, Naphtha Number 6 (solvent) 41.5, a reaction product of aminoethylaminopropyltrimethoxysilane and γ -glycidoxypropyltrimethoxysilane (in a ratio of 1:2.2 as coupler) 8 and γ -mercaptopropyltrimethoxysilane 4 parts in 41.5 parts of isopropanol, 10 parts Et silicate 48 and 8 parts Me orthoacetate to give a title composition with 45% solid content and good claimed properties.

IT 15546-16-4, Dibutyltin bis(butyl maleate)

RL: CAT (Catalyst use); USES (Uses)

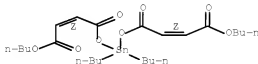
(hardening catalysts; low temperature-curable

alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)

RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C09D143-04

ICS C09D007-12

CC 42-10 (Coatings, Inks, and Related Products)

ST alkoxy-silyl contg vinyl resin compn top coating; Low temp curable vinyl resin coating; pot life vinyl resin compn coating; weather soiling resistance vinyl resin compn coating; organometallic tin compd vinyl resin compn coating; weak solvent aliph hydrocarbon vinyl resin compn coating; silane coupling agent vinyl resin compn coating; hydrolyzable ester drying agent coating vinyl resin; mercaptosilane compd pot life improver vinyl resin coating; acrylic resin top coating compn

IT Isoalkanes

RL: NUU (Other use, unclassified); USES (Uses)

(C9-12, weak solvent; low temperature-curable

alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)

IT Paraffin oils

RL: NUU (Other use, unclassified); USES (Uses)

(Exxsol D 40, weak solvent; low temperature-curable

alkoxysilyl-containing vinyl resin compns. with long pot life and

10/584,396-323714-EIC SEARCH

- IT good appearance and resistance to weather and soiling)
- IT Naphtha
 - RL: NUU (Other use, unclassified); USES (Uses)
 - (Naphtha 6, weak solvent; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Coating materials
 - (antisoiling, weather-resistant; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Silanes
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (coupling agent; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Drying agents
 - (low temperature-curable alkoxy silyl-containing vinyl resin compns. useful as top coatings of construction materials such as metal, ceramics and concrete)
- IT Coating materials
 - (low-temperature-curable; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Crosslinking catalysts
 - (organometallic compds.; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Esters, uses
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (ortho acid, dehydrating agent; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Acrylic polymers, uses
 - RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 - (polysiloxane-; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Coupling agents
 - (silanes; low temperature-curable alkoxy silyl-containing vinyl resin compns. useful as top coatings of construction materials such as metal, ceramics and concrete)
- IT Ceramics
 - Concrete
 - (substrate; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Metals, miscellaneous
 - RL: MSC (Miscellaneous)
 - (substrate; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Coating materials
 - (topcoats; low temperature-curable alkoxy-silyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT Solvents
 - (weak; low temperature-curable alkoxy silyl-containing vinyl resin compns. useful as top coatings of construction materials such as metal, ceramics and concrete)
- IT 919-30-2, γ -Aminopropyltriethoxysilane 65169-82-6
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (coupling agent; low temperature-curable alkoxy silyl-containing vinyl resin compns. useful as top coatings of construction materials such as metal, ceramics and concrete)

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- IT 51729-43-2
RL: MOA (Modifier or additive use); USES (Uses)
(coupling agent; low temperature-curable alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT 149-73-5, Methyl orthoformate 1445-45-0, Methyl orthoacetate
RL: MOA (Modifier or additive use); USES (Uses)
(dehydrating agent; low temperature-curable alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT 15546-16-4, Dibutyltin bis(butyl maleate) 29881-72-9, Dibutyltin bis(oleyl maleate)
RL: CAT (Catalyst use); USES (Uses)
(hardening catalysts; low temperature-curable alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT 308279-33-6P 308279-34-7P 308790-03-6P, Butyl methacrylate-N-methylolacrylamide- γ -methacryloxypropyltrimethoxysilane-methyl methacrylate-MS 563 copolymer 308790-04-7P, Ethyl silicate 48-isobutyl methacrylate-lauryl methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl methacrylate copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(low temperature-curable alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT 112-55-0, Dodecyl mercaptan 4420-74-0, γ -Mercaptopropyltrimethoxysilane
RL: MOA (Modifier or additive use); USES (Uses)
(pot life improver; low temperature-curable alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT 12616-83-0
RL: MSC (Miscellaneous)
(substrate; low temperature-curable alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)
- IT 1330-20-7, Xylene, uses 308790-01-4, P 20 (solvent)
RL: NUU (Other use, unclassified); USES (Uses)
(weak solvent; low temperature-curable alkoxysilyl-containing vinyl resin compns. with long pot life and good appearance and resistance to weather and soiling)

L39 ANSWER 5 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 2000:389074 HCAPLUS Full-text

DOCUMENT NUMBER: 133:44998

TITLE:
Curable resin compositions for matte
topcoating materials and articles coated
therewithINVENTOR(S):
Tamai, Hitoshi; Ando, Naotami; Kawaguchi,
HirotoshiPATENT ASSIGNEE(S):
SOURCE: Kanegafuchi Chemical Industry Co., Ltd., Japan
Jpn. Kokai Tokyo Koho, 12 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000160103	A	20000613	JP 1998-337605	1998

JP 3954740 B2 20070808 <-- 1127
 PRIORITY APPLN. INFO.: JP 1998-337605 1998
 1127

OTHER SOURCE(S): MARPAT 133:44998

ED Entered STN: 13 Jun 2000

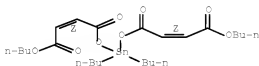
AB Vinyl monomers having hydrolyzable silyl groups (1-90 parts) and 10-99 parts other vinyl monomers are polymerized to conversion >50% in the 1st stage, subjected to the 2nd stage polymerization, mixed (100 parts) with Si compds. (R⁰)₄-aSiR₁a, where R, R₁ = C1-10 alkyl groups, C6-10 aryl groups, and C7-11 aralkyl groups, a = 0 or 1, and/or partial hydrolytic condensates thereof 0-200, curing catalysts 0.1-20, and silane coupling agents 0-20 parts to prepare coating materials. Thus, a topcoat contained 2-ethylhexyl methacrylate-γ-methacryloxypropyltrimethoxysilane-Me methacrylate-M-methylolacrylamide copolymer 100, ES 148 (a tetraethoxysilane hydrolytic condensate) 15, 1:1 2-ethylhexanoic acid-dimethyldodecylamine salt-dibutyltin Bu maleate 0.5, 1:2 M Epikote 828-γ-aminopropyltriethoxysilane reaction product 1, and A 1122 0.5 part.

IT 15346-16-4, Dibutyltin bis(butyl maleate)
 RL: CAT (Catalyst use); USES (Uses)
 (curable vinyl silicone resin compns. for matte topcoating materials)

RN 15346-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C09D183-08
 ICS C09D005-00; C09D133-00

CC 42-10 (Coatings, Inks, and Related Products)

ST matte topcoat vinyl silicone polymer; crosslinking catalyst matte topcoat vinyl silicone polymer; ethylhexanoic acid dimethyldodecylamine salt crosslinking catalyst coating; butyltin butyl maleate crosslinking catalyst coating

IT Coating materials
 (antisoiling; curable vinyl silicone resin compns. for matte topcoating materials)

IT Silanes
 RL: MOA (Modifier or additive use); USES (Uses)
 (coupling agents; curable vinyl silicone resin compns. for matte topcoating materials)

IT Coupling agents
 Crosslinking catalysts
 (curable vinyl silicone resin compns. for matte topcoating materials)

IT Coating materials
 (matte; curable vinyl silicone resin compns. for matte topcoating materials)

IT Vinyl compounds, uses
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polymers, polysiloxane-; curable vinyl silicone resin compns. for matte topcoating materials)

IT Epoxy resins, uses

10/584,396-323714-EIC SEARCH

- RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polysiloxanes-vinyl polymer-; curable vinyl silicone resin compns. for matte topcoating materials)
- IT Polymerization
(radical, two-step; curable vinyl silicone resin compns. for matte topcoating materials)
- IT Coating materials
(topcoats; curable vinyl silicone resin compns. for matte topcoating materials)
- IT Polysiloxanes, uses
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(vinyl polymer-; curable vinyl silicone resin compns. for matte topcoating materials)
- IT Coating materials
(weather-resistant; curable vinyl silicone resin compns. for matte topcoating materials)
- IT 15546-16-4, Dibutyltin bis(butyl maleate) 274678-05-6, 2-Ethylhexanoic acid dimethyldodecylamine salt
RL: CAT (Catalyst use); USES (Uses)
(curable vinyl silicone resin compns. for matte topcoating materials)
- IT 274677-99-5P, 2-Ethylhexyl methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl methacrylate-N-methylolacrylamide copolymer 274678-00-1P, Lauryl methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl methacrylate-N-methylolacrylamide-styrene copolymer 274678-01-2P, γ -Methacryloxypropyltrimethoxysilane-methyl methacrylate-N-methylolacrylamide-stearyl methacrylate copolymer 274678-02-3P, 2-Ethylhexyl acrylate-2-ethylhexyl methacrylate-isobutyl methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl methacrylate-N-methylolacrylamide copolymer 274678-03-4P, Butyl acrylate-2-ethylhexyl methacrylate-isobutyl methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl methacrylate-N-methylolacrylamide copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(curable vinyl silicone resin compns. for matte topcoating materials)
- IT 274678-04-5P 275354-03-5P, ESI 48-2-ethylhexyl methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl methacrylate-N-methylolacrylamide copolymer 275354-04-6P 275354-05-7P 275354-06-8P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(curable vinyl silicone resin compns. for matte topcoating materials)
- IT 919-30-2D, γ -Aminopropyltriethoxysilane, reaction products with Epikote 828 1760-24-3 1760-24-3D, N- β -(Aminoethyl)- γ -aminopropyltrimethoxysilane, reaction products with γ -glycidoxypolypropyltrimethoxysilane 2530-83-8D, γ -Glycidoxypolypropyltrimethoxysilane, reaction products with N- β -(aminoethyl)- γ -aminopropyltrimethoxysilane 25068-38-6D, Epikote 828, reaction products with γ -aminopropyltriethoxysilane
RL: MOA (Modifier or additive use); USES (Uses)
(silane coupling agent; curable vinyl silicone resin compns. for matte topcoating materials)
- OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

10/584,396-323714-EIC SEARCH

ACCESSION NUMBER: 2000:267289 HCAPLUS Full-text
 DOCUMENT NUMBER: 132:295225
 TITLE: Storage-stable moisture-curable
 resin compositions for top coating and the
 coated articles
 INVENTOR(S): Tamai, Hitoshi; Ando, Naotami; Inoue, Shoji;
 Nanbu, Toshiro; Kawaguchi, Hirotoshi; Kono,
 Yoshiyuki
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000119590	A	20000425	JP 1998-293244	1998 1015
			<--	
JP 2008144178	A	20080626	JP 2007-340468	2007 1228
			<--	
PRIORITY APPLN. INFO.:			JP 1998-293244	A3 1998 1015
			<--	

ED Entered STN: 25 Apr 2000

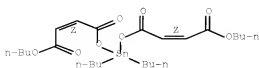
AB The compns. giving cured films with good adhesion to substrates and chemical, soiling and weather resistance, comprise (A) a base resin 100, (B) hydrocarbyloxysilicone compds. or their partial hydrolyzates, 0-200, (C) polyisocyanate crosslinkers 0.1-30, (D) organometal compds. as curing catalysts and (E) monoisocyanate compds. as moisture absorbents, 0.1-100 parts, where the A is selected from hydrolyzable silylated polymers, OH-containing fluoropolymers or/and acrylic polyols. Thus, polymerizing γ -methacryloxypropyltrimethoxysilane 10 with 2-hydroxyethyl methacrylate 5, Me methacrylate 25, Bu methacrylate 45, Bu acrylate 14 and acrylamide 1 part in the presence of AIBN gave a copolymer, 100 parts of which was homogenized with MKC Silicate MS 56S (Me silicate) 10, and Tipaque CR 95 (TiO₂) 40 parts to give an enamel with solids content 6%. Mixing the enamel with HMDI 6, Bu₂Sn bis(isooctylthioglycolate) 1 and tosyl isocyanate 2 phr and enough amount of a thinner to 45% solids content, and coating the resulting mixture on an epoxy pre-finished steel surface gave coat films with good room temperature curability.

IT 15546-16-4, Dibutyltin bis(butyl maleate)
 RL: CAT (Catalyst use); USES (Uses)
 (curing catalysts; storage-stable moisture-curable resin compns. for top coating and coated articles)

RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



10/584,396-323714-EIC SEARCH

IC ICM C09D143-04
 IC5 B05D005-06; B05D007-24; C08G018-62

CC 42-10 (Coatings, Inks, and Related Products)

ST polyurethane silicone coating room temp curable;
 moisture curable siliconized urethane coating; storage
 stable moisture curable siliconized urethane coating;
 acrylic alkoxysilane urethane coating moisture curable;
 top coating acrylic silicone urethane moisture curable
 compn

IT Polyurethanes, uses
 Polyurethanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (acrylic-polysiloxane-; storage-stable moisture-
 curable resin compns. for top coating and coated
 articles)

IT Polysiloxanes, uses
 Polysiloxanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (acrylic-polyurethane-; storage-stable moisture-curable
 resin compns. for top coating and coated articles)

IT Coating materials
 Crosslinking catalysts
 (storage-stable moisture-curable resin compns. for
 top coating and coated articles)

IT 26062-01-1P, Acrylic acid-butyl acrylate-2-hydroxyethyl
 acrylate-methyl methacrylate copolymer 209971-73-3P,
 Acrylamide-butyl acrylate-2-hydroxyethyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate-styrene copolymer 214838-12-7P, Acrylamide-butyl
 acrylate-butyl methacrylate-2-hydroxyethyl
 methacrylate-3-methacryloxypropyltrimethoxysilane-methyl
 methacrylate copolymer 214838-14-9P, Acrylamide-butyl
 acrylate-2-hydroxyethyl methacrylate- γ -
 methacryloxypropyltrimethoxysilane-methyl methacrylate copolymer
 214838-18-3P, Butyl acrylate-butyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate; Placcel FM 1; styrene copolymer
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 PREP (Preparation); USES (Uses)
 (base resin; storage-stable moisture-curable resin
 compns. for top coating and coated articles)

IT 13963-57-0, Aluminum tris(acetylacetonate) 13546-16-4,
 Dibutyltin bis(butyl maleate) 25168-24-5, Dibutyltin
 bis(isooctylthioglycolate) 214917-43-8
 RL: CAT (Catalyst use); USES (Uses)
 (curing catalysts; storage-stable moisture-
 curable resin compns. for top coating and coated
 articles)

IT 2525-62-4, Hexyl isocyanate 4083-64-1, Tosyl isocyanate
 RL: MOA (Modifier or additive use); USES (Uses)
 (moisture absorbents; storage-stable moisture-curable
 resin compns. for top coating and coated articles)

IT 215036-56-9, Acrylamide-butyl acrylate-butyl
 methacrylate-HMDI-2-hydroxyethyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate-MKC Silicate MS 56S copolymer 215036-57-0,
 Acrylamide-butyl acrylate-HMDI-2-hydroxyethyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate-MKC Silicate MS 56S copolymer 215036-61-6,
 Acrylamide-butyl acrylate-ESI 48-HMDI-2-hydroxyethyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate-MKC Silicate MS 56S copolymer 215036-65-0, Butyl
 acrylate-butyl methacrylate-HMDI- γ -
 methacryloxypropyltrimethoxysilane-methyl methacrylate-MKC

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Silicate MS 56S-Placel FM 1-styrene copolymer 264626-13-3,
 Acrylamide-butyl acrylate-butyl methacrylate-FR
 3-HMDI-2-hydroxyethyl methacrylate- γ -
 methacryloxypropyltrimethoxysilane-methyl methacrylate copolymer
 264626-14-4, Acrylamide-butyl acrylate-FR 3-2-hydroxyethyl
 methacrylate-Lumiflon LF 100C- γ -
 methacryloxypropyltrimethoxysilane-methyl methacrylate-xylene
 diisocyanate copolymer 264626-15-5, Acrylamide-butyl acrylate-FR
 3-2-hydroxyethyl methacrylate-IPDI- γ -
 methacryloxypropyltrimethoxysilane-methyl methacrylate-styrene
 copolymer 264626-16-6, Acrylamide-butyl acrylate-butyl
 methacrylate-HMDI-2-hydroxyethyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate copolymer 264906-41-4, Acrylamide-butyl
 methacrylate-butyl methacrylate-2-hydroxyethyl methacrylate-ESI
 48- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate-2,4-TDI copolymer 264906-42-5, Acrylamide-acrylic
 acid-butyl acrylate-butyl methacrylate-HMDI-2-hydroxyethyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate-MKC Silicate MS 56S copolymer 264906-43-6,
 Acrylamide-butyl acrylate-butyl methacrylate-ESI
 48-HMDI-2-hydroxyethyl methacrylate- γ -
 methacryloxypropyltrimethoxysilane-methyl methacrylate copolymer
 264906-44-7, Acrylamide-butyl acrylate-ESI 48-HMDI-2-hydroxyethyl
 methacrylate- γ -methacryloxypropyltrimethoxysilane-methyl
 methacrylate-styrene copolymer
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (storage-stable moisture-curable resin compns. for
 top coating and coated articles)

L39 ANSWER 7 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1999:751805 HCAPLUS Full-text
 DOCUMENT NUMBER: 132:3919
 TITLE: Easily mixable two-liquid adhesive
 compositions having excellent storage
 stability
 INVENTOR(S): Nimura, Takahiro
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11323297	A	19991126	JP 1998-130566	1998 0513
PRIORITY APPLN. INFO.:			JP 1998-130566	1998 0513

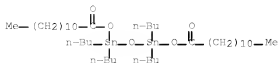
ED Entered STN: 26 Nov 1999

AB Title compns. comprise (A) agents containing modified silicones having ≥ 1 reactive Si group per mol., amines, and silanol condensation catalysts and (B) agents containing epoxy resins, thixotropic agents, precipitation inhibitors, and H₂O. Thus, a two-liquid adhesive comprising an agent containing modified silicone (Silyl SAT 200) 100, 2,4,6-tris(dimethylaminomethyl)phenol (DMP 30) 20, a catalyst (Stann SB 65) 5, and CaCO₃ (Hakuenka CC) 80 parts and an agent containing Epikote 828 50, H₂O 3, CaCO₃ 80,

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and thixotropic agent (Disparlon 305) 10 parts showed good stability after storing at 40° for 3 mo. and tensile shear strength 28 kg/cm2.

IT 3669-02-1, Stann SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (silanol condensation catalyst; easily mixable
 two-liquid adhesive compns. having good storage stability)
 RN 3669-02-1 HCAPLUS
 CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)



IC ICM C09J163-00
 ICS C09J183-06
 CC 38-3 (Plastics Fabrication and Uses)
 ST adhesive two liq storage stability; silicone amine condensation
 catalyst adhesive; epoxy resin thixotropic agent adhesive;
 pptn inhibitor epoxy resin adhesive
 IT Amines, uses
 RL: CAT (Catalyst use); USES (Uses)
 (crosslinking catalysts; easily mixable
 two-liquid adhesive compns. having good storage stability)
 IT Condensation reaction catalysts
 Thixotropic agents
 (easily mixable two-liquid adhesive compns. having good storage
 stability)
 IT Epoxy resins, uses
 Polysiloxanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (easily mixable two-liquid adhesive compns. having good storage
 stability)
 IT 90-72-2, DMP 30
 RL: CAT (Catalyst use); USES (Uses)
 (crosslinking catalyst; easily mixable
 two-liquid adhesive compns. having good storage stability)
 IT 3669-02-1, Stann SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (silanol condensation catalyst; easily mixable
 two-liquid adhesive compns. having good storage stability)

L39 ANSWER 8 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:648910 HCAPLUS Full-text

DOCUMENT NUMBER: 131:287799

TITLE: Curable acrylic siloxane

deodorant coating

INVENTOR(S): Tamai, Hitoshi; Inoue, Shoji; Matsuo, Yoichi

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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10/584,396-323714-EIC SEARCH

JP 11279480 A 19991012 JP 1998-100058 1998
0329
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JP 4007465 B2 20071114 JP 1998-100058 1998
PRIORITY APPLN. INFO.: 0329
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ED Entered STN: 12 Oct 1999

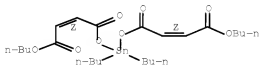
AB Title coating useful for metal, ceramics, glass, plastics, etc., comprises an acrylic copolymer containing ≥ 2 hydrolytic silyl group and 2-50% $\geq C8$ alkyl methacrylate monomer units, a solvent containing $\geq 50\%$ saturated hydrocarbon and/or $\geq C9$ aromatic hydrocarbon and/or terpene oil, a pigment, a hydrolytic ester, and a crosslinking catalyst. Thus, γ -methacryloxypropyltrimethoxysilane 15, stearyl methacrylate 10, Bu methacrylate 10, MMA 35 Bu acrylate 25, styrene 5 were polymerized, 100 parts of which was mixed with terpene oil 40, iron oxide 20, hydrolytic ester Me orthoacetate 8 and dibutyltinbutyl maleate 2, γ -methacryloxypropyltrimethoxysilane/stearyl methacrylate/Bu methacrylate/MMA/Bu acrylate/styrene/unsatd. polyester 40, silicate compound 30, silicate coupling agent 2, and γ -mercaptopropyltrimethoxysilane 1 part to form a coating, showing gloss 87, contact angle 64° , and good adhesion.

IT 15546-16-4, Dibutyltin bisbutylmaleate
17036-31-6, Dibutyltin bisoctylmaleate
RL: CAT (Catalyst use); USES (Uses)
(catalyst; curable acrylic siloxane deodorant coating)

RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

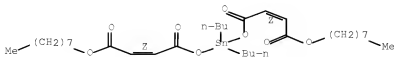
Double bond geometry as shown.



RN 17036-31-6 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dioctyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C09D143-04
ICS C09D133-06; C09D167-02; C09D183-00

CC 42-10 (Coatings, Inks, and Related Products)

ST acrylic siloxane curable deodorant coating

IT Coating materials
Crosslinking catalysts
(curable acrylic siloxane deodorant coating)

IT Aromatic hydrocarbons, uses

Terpenes, uses
 RL: NUU (Other use, unclassified); USES (Uses)
 (solvent; curable acrylic siloxane
 deodorant coating)

IT Polyesters, uses
 RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (unsatd.; curable acrylic siloxane
 deodorant coating)

IT 149-57-5, 2-Ethylhexanoic acid 15546-16-4, Dibutyltin
 bisbutylmaleate 17036-31-6, Dibutyltin bisoctylmaleate
 RL: CAT (Catalyst use); USES (Uses)
 (catalyst; curable acrylic siloxane
 deodorant coating)

IT 112-18-5
 RL: CAT (Catalyst use); USES (Uses)
 (curable acrylic siloxane deodorant
 coating)

IT 80-62-6DP, Methyl methacrylate, polymers with acrylic monomers,
 styrene and unsatd. polyesters 97-88-1DP, Butyl methacrylate,
 polymers with acrylic monomers, styrene and unsatd. polyesters
 100-42-5DP, Styrene, polymers with acrylic monomers and unsatd.
 polyesters 141-32-2DP, Butyl acrylate, polymers with acrylic
 monomers, styrene and unsatd. polyesters 2530-85-0DP,
 γ -Methacryloxypropyltrimethoxysilane, polymers with acrylic
 monomers, styrene and unsatd. polyesters 239081-60-8P,
 γ -Methacryloxypropyltrimethoxysilane-stearyl
 methacrylate-butyl methacrylate-methyl methacrylate-butyl
 acrylate-styrene copolymer 246042-92-2P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (curable acrylic siloxane deodorant
 coating)

IT 149-73-5, Methyl orthoformate 56893-90-4, Methyl orthoacetate
 RL: TEM (Technical or engineered material use); USES (Uses)
 (curable acrylic siloxane deodorant
 coating)

IT 147-14-8, Phthalocyanine Blue 1309-37-1, Iron oxide (Fe₂O₃),
 uses 13463-67-7, Tipaque CR 95, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (pigment; curable acrylic siloxane
 deodorant coating)

IT 1330-20-7, Xylene, uses 12676-97-0, Shellsol
 RL: NUU (Other use, unclassified); USES (Uses)
 (solvent; curable acrylic siloxane
 deodorant coating)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
 THIS RECORD (1 CITINGS)

L39 ANSWER 9 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 1999:250363 HCAPLUS Full-text
 DOCUMENT NUMBER: 130:325826
 TITLE: Process for manufacture of curable
 silicone compositions characterized by mixing
 of curing catalysts and
 pigments
 INVENTOR(S): Yamauchi, Yasushi
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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1006

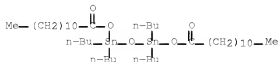
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AB Title compns. are prepared by conducting the batch production of base materials (except crosslinking catalysts and pigments), sending the base materials to an airtight line by a pressure-sending means, mixing crosslinking catalysts and pigments into the base materials in the airtight line, and repeating the batch production of the same base materials and the pressure-sending to the airtight line. Cleaning (using toxic solvents, etc.) of the container for kneading the based materials is required only when the composition of the base material is changed. Thus, a base material containing ES5 3620 (modified silicone), DOP, Whiton P 30 (heavy CaCO₃), Viscolite U (colloidal CaCO₃), and Vinylsilane TSL 8310 (dehydrating agent) was kneaded by a planetary mixer in a kneading container, sent to a mixer by oil pressure, and mixed with SB 65 (Sn-based crosslinking catalyst) and carbon black/DOP (25/75) mixture to give a composition. When the above process was repeated 20 times, the preparation of the composition showed good efficiency.

RL: CAT (Catalyst use); USES (Uses)
(crosslinking catalyst; preparation of
curable silicone compns. with good efficiency saving
steps for cleaning kneading containers)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
INDEX NAME)



ICS C08L083-04

CC 37-6 (Plastics Manufacture and Processing)

ST curable silicone compn prepn efficiency;
crosslinking catalyst curable silicone
compn; pigment curable silicone compn; cleaning kneading
container silicone compn processing

IT Polysiloxanes, uses

RL: PEP (Physical engineering or chemical process); POF (Polymer in formulation); PROC (Process); USES (Uses)
(modified, ESS 3620; preparation of curable silicone compns. with good efficiency saving steps for cleaning kneading containers)

IT Carbon black, uses

RL: MOA (Modifier or additive use); USES (Uses)
(pigment; preparation of curable silicone compns. with
good efficiency saving steps for cleaning kneading containers)

IT Crosslinking catalysts

Kneading

Kneading apparatus

Pigments, nonbiological

Process control

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(preparation of curable silicone compns. with good
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10/584,396-323714-EIC SEARCH

efficiency saving steps for cleaning kneading containers)

IT 471-34-1, Viscolite U, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (colloidal; preparation of curable silicone compns. with
 good efficiency saving steps for cleaning kneading containers)

IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (crosslinking catalyst; preparation of
 curable silicone compns. with good efficiency saving
 steps for cleaning kneading containers)

IT 2768-02-7, TSL 8310
 RL: MOA (Modifier or additive use); USES (Uses)
 (dehydrating agent; preparation of curable silicone
 compns. with good efficiency saving steps for cleaning kneading
 containers)

IT 117-81-7, DOP
 RL: MOA (Modifier or additive use); USES (Uses)
 (plasticizer; preparation of curable silicone compns. with
 good efficiency saving steps for cleaning kneading containers)

L39 ANSWER 10 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1998:799895 HCAPLUS Full-text

DOCUMENT NUMBER: 130:111258

TITLE: One-liquid moisture-curable
 polyurethane adhesive compositions with good
 workability

INVENTOR(S): Kobayashi, Masaya

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10330721	A	19981215	JP 1997-147999	1997 0605

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PRIORITY APPLN. INFO.: JP 1997-147999

1997
0605

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ED Entered STN: 22 Dec 1998

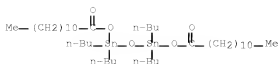
AB The compns. using no organic solvents and migrating diluents comprise urethane prepolymers with both ends capped with NCO group, synthetic resins with ≥2 reactive silyl groups and viscosity at 20° 100-15,000 mPa.s, and silanol condensation catalysts. A composition comprised a urethane prepolymer from polypropylene glycol (Adeka Polyether P3000) and 4,4'-MDI 100, Silyl SAT010 (a polyether containing 22 methylidimethoxysilyl groups) 50, Hakuena CC (hydrophobilized CaCO₃) 50, silanol condensation catalyst (SB 65) 0.5, and U-Cat 2041 0.05 part, showing good adhesion and workability.

IT 3669-02-1, SB 65

RL: CAT (Catalyst use); USES (Uses)
 (silanol condensation catalysts; one-liquid moisture-
 curable polyurethane adhesive compns. with good
 workability)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)



IC ICM C09J175-04
 CC 38-3 (Plastics Fabrication and Uses)
 ST one liq moisture curable polyurethane adhesive;
 polyoxyalkylene polyurethane moisture curable adhesive;
 silanol condensation catalyst moisture curable
 adhesive
 IT Adhesives
 (moisture-curable; one-liquid moisture-curable
 polyurethane adhesive compns. with good workability)
 IT Polyurethanes, uses
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (one-liquid moisture-curable polyurethane adhesive
 compns. with good workability)
 IT Polyurethanes, uses
 Polyurethanes, uses
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (polyisiloxane-; one-liquid moisture-curable
 polyurethane adhesive compns. with good workability)
 IT Polyisiloxanes, uses
 Polyisiloxanes, uses
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (polyurethane-; one-liquid moisture-curable
 polyurethane adhesive compns. with good workability)
 IT 219599-40-3, Polypropylene glycol-4,4'-MDI-Silyl SAT 10 copolymer
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (one-liquid moisture-curable polyurethane adhesive
 compns. with good workability)
 IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (silanol condensation catalysts; one-liquid moisture-
 curable polyurethane adhesive compns. with good
 workability)

L39 ANSWER 11 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 1998:742611 HCAPLUS Full-text
 DOCUMENT NUMBER: 130:53482
 TITLE: Room-temperature-curable two-pot
 adhesive compositions with good post-
 cured strength and elasticity for tile
 floors
 INVENTOR(S): Nimura, Takahiro
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10306273	A	19981117	JP 1997-115690	

1997
0506JP 3447197 B2 20030916
PRIORITY APPLN. INFO.: JP 1997-1156901997
0506

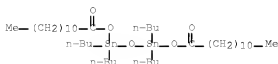
ED Entered STN: 23 Nov 1998

AB The compns., showing excellent self-leveling property, consist of a part A comprising polysiloxanes having reactive Si groups, silanol condensation catalysts and epoxy resin hardeners, 100, diluents 3-20, and CaCO₃ 25-100 parts, and a part B comprising epoxy resins 100, diluents 3-20, CaCO₃ 25-100, and water 0.5-5 parts. Thus, a mixture (as part A) of Silyl SAX 350 (modified silicone) 90, SB 65 2, DMP 30 (epoxy resin hardener) 8, a monoglycidyl ether compound 3, and Hakusuka CC 25 parts and a mixture (as part B) of Epikote 828 100, Et Cellosolve 10, Whiton SB 50, and water 1 parts were sep. prepared and combined at A/B weight ratio 128:81 to give an adhesive showing viscosity (20°) 1.7 + 104 mPa-s, thixotropic index (20°) 2.5, and area peeling strength 25 kg/cm² to a tile at pulling rate 50 mm/min.

IT 3689-02-1, SB 65
RL: CAT (Catalyst use); USES (Uses)
(silanol condensation catalysts; room-temperature-curable two-pot tile adhesives containing epoxy resins and silicones with good strength and elasticity)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09J183-04
ICS C08G059-40; C09J163-00

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 58

ST tile floor adhesive polysiloxane epoxy blend;
cured elasticity polysiloxane tile adhesive;
water contg thixotropy tile adhesive; calcium carbonate viscosity
tile adhesive; two liq tile adhesive polysiloxane epoxy

IT Polysiloxanes, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)
(Silyl SAX 350; room-temperature-curable two-pot tile
adhesives containing epoxy resins and silicones with good strength
and elasticity)

IT Tiles
(room-temperature-curable two-pot tile adhesives containing
epoxy resins and silicones with good strength and elasticity)

IT Epoxy resins, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)
(room-temperature-curable two-pot tile adhesives containing
epoxy resins and silicones with good strength and elasticity)

IT Adhesives
(room-temperature-curable, two-pot; room-temperature-
curable two-pot tile adhesives containing epoxy resins and
silicones with good strength and elasticity)

IT 7732-18-5, Water, uses
RL: CAT (Catalyst use); USES (Uses)

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(room-temperature-curable two-pot tile adhesives containing epoxy resins and silicones with good strength and elasticity)

IT 106831-79-2P, DMP 30-Epikote 828 copolymer
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (room-temperature-curable two-pot tile adhesives containing epoxy resins and silicones with good strength and elasticity)

IT 471-34-1, Homocal D, uses 214210-28-3, Hakuenka CC
 RL: MOA (Modifier or additive use); USES (Uses)
 (room-temperature-curable two-pot tile adhesives containing epoxy resins and silicones with good strength and elasticity)

IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (silanol condensation catalysts; room-temperature-curable two-pot tile adhesives containing epoxy resins and silicones with good strength and elasticity)

L39 ANSWER 12 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1998:712303 HCAPLUS Full-text

DOCUMENT NUMBER: 129:332224

ORIGINAL REFERENCE NO.: 129:67725a,67728a

TITLE: Curable compositions for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith

INVENTOR(S): Tamai, Hitoshi; Inoue, Masaharu

PATENT ASSIGNEE(S): Kaneka Corp., Japan

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9846691	A1	19981022	WO 1998-JP1663	1998 0410
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W: US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 11286648	A	19991019	JP 1998-99644	1998 0410

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JP 3954721	B2	20070808		
EP 974629	A1	20000126	EP 1998-912760	1998 0410

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R: BE, DE, FR, GB, IT				
US 6383648	B1	20020507	US 1999-402821	1999 1230

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PRIORITY APPLN. INFO.:		JP 1997-93265	A	1997 0411
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		JP 1998-21892	A	1998 0203
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 10 Nov 1998

AB The title comps. can be obtained by blending 100 parts acrylic copolymer having a (R1O)3-aSi(R2)aC.tplbond. group (R1 = H, Cl-10 alkyl; R2 = H, Cl-10 alkyl, aryl, aralkyl; a = 0-2) and a hydroxyl group with 2-70 parts (R3O)4-bSi(R4)b (R3, R4 = Cl-10 alkyl, aryl, aralkyl; b = 0, 1) or a partial hydrolyzate thereof and 0.1-20 parts a crosslinking agent consisting of a compound having isocyanate groups. A polymer from γ -methacryloyloxypropyltrimethoxysilane, 2-hydroxyethyl methacrylate, Me methacrylate, Bu methacrylate, Bu acrylate, and acrylamide was used with MS56, titania, HMDI, and organotin catalyst over a V-Top midcoating.

IT 15546-16-4, Dibutyltin bis(butyl maleate)

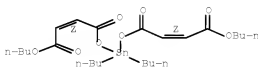
RL: CAT (Catalyst use); USES (Uses)

(curable comps. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)

RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C09D175-00

ICS C09D183-06; B05D007-24

CC 42-10 (Coatings, Inks, and Related Products)

ST acrylic polysiloxane polyurethane topcoating

IT Polyurethanes, uses

Polyurethanes, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation);

TEM (Technical or engineered material use); PREP (Preparation);

USES (Uses)

(acrylic-polysiloxane-; curable comps. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)

IT Polysiloxanes, uses

Polysiloxanes, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation);

TEM (Technical or engineered material use); PREP (Preparation);

USES (Uses)

(acrylic-polyurethane-; curable comps. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)

IT Coating materials

(antistaining; curable comps. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)

IT Crosslinking catalysts

(curable comps. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)

IT Coating materials

Coating materials

(impact-resistant; curable comps. for topcoating showing good adhesion and stain, solvent, and impact resistance)

- and articles coated therewith)
- IT Coating materials
Coating materials
(solvent-resistant; curable compns. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)
- IT 15306-17-9, Aluminum tris(ethyl acetoacetate) 15546-16-4
, Dibutyltin bis(butyl maleate) 25168-24-5, Dibutyltin bis(isooctyl thioglycolate) 214917-43-8
RL: CAT (Catalyst use); USES (Uses)
(curable compns. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)
- IT 215036-56-9P, Acrylamide-butyl acrylate-butyl methacrylate-HMDI-2-hydroxyethyl methacrylate-MS56-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer 215036-57-0P 215036-58-1P 215036-59-2P, Acrylamide-butyl acrylate-2-hydroxyethyl methacrylate-MSI51-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate-xylene diisocyanate copolymer 215036-60-5P, Butyl acrylate-butyl methacrylate-ESI40-HMDI-2-hydroxyethyl methacrylate-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer 215036-61-6P, Acrylamide-butyl acrylate-ESI40-HMDI-2-hydroxyethyl methacrylate-MSI51-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer 215036-62-7P, Butyl acrylate-butyl methacrylate-HMDI-2-hydroxyethyl methacrylate-MS56-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer 215036-63-8P, Acrylamide-butyl acrylate-HMDI-2-hydroxyethyl methacrylate-MS56-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate-styrene copolymer 215036-64-9P, Acrylamide-butyl acrylate-2-hydroxyethyl methacrylate-IPDI-MS56-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate-styrene copolymer 215036-65-0P, Butyl acrylate-butyl methacrylate-HMDI-MS56-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate-Placel FMI-styrene copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(curable compns. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)
- IT 161824-60-8P, Butyl acrylate-butyl methacrylate-2-hydroxyethyl methacrylate-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer 209971-73-3P, Acrylamide-butyl acrylate-2-hydroxyethyl methacrylate-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate-styrene copolymer 214838-12-7P, Acrylamide-butyl acrylate-butyl methacrylate-2-hydroxyethyl methacrylate-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer 214838-14-9P, Acrylamide-butyl acrylate-2-hydroxyethyl methacrylate-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate copolymer 214838-18-3P, Butyl acrylate-butyl methacrylate-γ-methacryloyloxypropyltrimethoxysilane-methyl methacrylate-Placel FMI-styrene copolymer
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(curable compns. for topcoating showing good adhesion and stain, solvent, and impact resistance and articles coated therewith)

10/584,396-323714-EIC SEARCH

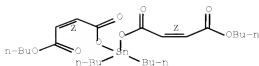
IT 112-55-0, Dodecyl mercaptan 4420-74-0,
 γ-Mercaptopropyltrimethoxysilane
 RL: NUU (Other use, unclassified); USES (Uses)
 (curable compns. for topcoating showing good adhesion
 and stain, solvent, and impact resistance and articles coated
 therewith)
 OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE
 THIS RECORD (2 CITINGS)
 REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L39 ANSWER 13 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 1998:488173 HCAPLUS Full-text
 DOCUMENT NUMBER: 129:190530
 ORIGINAL REFERENCE NO.: 129:38697a,38700a
 TITLE: Antisoiling curable topcoating
 compositions with good recoatability and
 adhesion on metals and glass
 INVENTOR(S): Tamai, Hitoshi; Inoue, Shoji; Matsuo, Yoichi;
 Nanbu, Toshiro
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10195374	A	19980728	JP 1997-4630	1997 0114
			<--	
JP 3522998	B2	20040426		
PRIORITY APPLN. INFO.:			JP 1997-4630	1997 0114
			<--	

ED Entered STN: 05 Aug 1998
 AB The title compns. contain (A) 100 parts acrylic copolymers having C-bonded reacting
 silyl group (R1O)3-aR2aSi- (R1 = H, Cl-10 alkyl; R2 = H, Cl-10 alkyl, aryl, aralkyl; a
 = 0-2), (B) 2-70 parts (R3O)4-bSiR4b (or hydrolyzates) (R3 = Cl-10 alkyl, aryl,
 aralkyl; R4 = Cl-10 alkyl, aryl, aralkyl; b = 0, 1), (C) curing catalysts containing
 0.1-20 parts organotin catalyst, (D) 0.5-50 parts compds. containing hydrolyzable
 silyl group capable of coordinating to the organotin catalyst (C + D 0.6-25 parts), and
 0.1-20 parts silane coupler. A composition comprised 10:30:45:14:1 γ-
 methacryloyloxypropyltrimethoxysilane-Me methacrylate-Bu methacrylate-Bu acrylate-
 acrylamide copolymer 100, MS151 50, dibutyltin butylmaleate 1.5, 3-
 mercaptopropyltrimethoxysilane 0.8, 2.2:1 γ-glycidoxypolytrimethoxysilane-
 aminoethylaminopropyltrimethoxysilane reaction product 2.0, and γ-
 aminopropyltrimethoxysilane 0.5 part.
 IT 15546-16-4, Dibutyltin bisbutyl maleate
 RL: CAT (Catalyst use); USES (Uses)
 (antisoiling curable topcoating compns. with good
 recoatability and adhesion on metals and glass)
 RN 15546-16-4 HCAPLUS
 CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl
 ester (CA INDEX NAME)

Double bond geometry as shown.



- IC ICM C09D143-04
 CC 42-10 (Coatings, Inks, and Related Products)
 ST acrylic siloxane antisoiling topcoating; silane copuler
 antisoiling topcoating
 IT Polysiloxanes, uses
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 TEM (Technical or engineered material use); PREP (Preparation);
 USES (Uses)
 (acrylic; antisoiling curable topcoating compns. with
 good recoatability and adhesion on metals and glass)
 IT Coupling agents
 Crosslinking catalysts
 (antisoiling curable topcoating compns. with good
 recoatability and adhesion on metals and glass)
 IT Coating materials
 (antisoiling; antisoiling curable topcoating compns.
 with good recoatability and adhesion on metals and glass)
 IT 15546-16-4, Dibutyltin bisbutyl maleate
 RL: CAT (Catalyst use); USES (Uses)
 (antisoiling curable topcoating compns. with good
 recoatability and adhesion on metals and glass)
 IT 83419-98-1P, Acrylamide-butyl acrylate-butyl
 methacrylate- γ -methacryloyloxypropyltrimethoxysilane-methyl
 methacrylate copolymer 99716-61-7P, Butyl acrylate-butyl
 methacrylate- γ -methacryloyloxypropyltrimethoxysilane-methyl
 methacrylate copolymer
 RL: IMF (Industrial manufacture); POF (Polymer in formulation);
 TEM (Technical or engineered material use); PREP (Preparation);
 USES (Uses)
 (antisoiling curable topcoating compns. with good
 recoatability and adhesion on metals and glass)
 IT 112-18-5 149-57-5, 2-Ethylhexanoic acid 2530-83-8,
 γ -Glycidioxypropyltrimethoxysilane 3115-39-7, Dioctyl
 phosphate 4420-74-0, γ -Mercaptopropyltrimethoxysilane
 13822-56-5, γ -Aminopropyltrimethoxysilane
 RL: MOA (Modifier or additive use); USES (Uses)
 (antisoiling curable topcoating compns. with good
 recoatability and adhesion on metals and glass)
 IT 11099-06-2, ESI 40 12002-26-5, MSI 51
 RL: POF (Polymer in formulation); TEM (Technical or engineered
 material use); USES (Uses)
 (antisoiling curable topcoating compns. with good
 recoatability and adhesion on metals and glass)

L39 ANSWER 14 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 1998:427951 HCAPLUS Full-text
 DOCUMENT NUMBER: 129:137069
 ORIGINAL REFERENCE NO.: 129:28009a,28012a
 TITLE: Adhesives for fixing equipments on roofs
 INVENTOR(S): Yamauchi, Yasushi; Murayama, Yukihiko
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10176158	A	19980630	JP 1996-339836	1996 1219
PRIORITY APPLN. INFO.:			JP 1996-339836	1996 1219

ED Entered STN: 11 Jul 1998

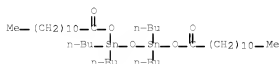
AB Title adhesives contain curing catalysts and modified silicones or polysulfides. An adhesive containing SB 65 and Excestar ES-S 3620 (hydrolyzable silyl-containing polyoxypropylene) showed an elongation of 3.8 mm after 2 wk at 20° and 65% relative humidity and good heat- and water-resistant adhesion when it was used to bind the steel frame of a solar energy system to the particle board of a roof.

IT 3669-02-1, SB 65

RL: CAT (Catalyst use); USES (Uses)
(curable modified siloxane- or polysulfide-based adhesives for fixing equipments on roofs)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09J171-02

ICS C09J183-00

CC 38-3 (Plastics Fabrication and Uses)

ST roof equipment adhesive polyoxypropylene siloxane;
modified polysulfide adhesive roof equipment

IT Roofs

(curable modified siloxane- or polysulfide-based adhesives for fixing equipments on roofs)

IT Polysulfides

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(curable modified siloxane- or polysulfide-based adhesives for fixing equipments on roofs)

IT Adhesives

Adhesives
(heat- and water-resistant; curable modified siloxane- or polysulfide-based adhesives for fixing equipments on roofs)

IT Synthetic rubber, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polyether, [(((mercaptoalkoxy)carbonyl)amino]alkyl)carbomoyl]-terminated, Permopol P 965; curable modified siloxane- or polysulfide-based adhesives for fixing equipments on roofs)

IT Polysiloxanes, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polyoxypropylene-; curable modified siloxane

10/584,396-323714-EIC SEARCH

- or polysulfide-based adhesives for fixing equipments on roofs)

IT 136-23-2, Sanceler BZ 3669-02-1, SB 65 14484-64-1,
Nocceler TTFE
RL: CAT (Catalyst use); USES (Uses)
(curable modified siloxane- or
polysulfide-based adhesives for fixing equipments on roofs)
IT 75009-88-0, Excestar ES-S 3430 77396-40-8, Kaneka MS-S 303
178535-69-8, Kaneka MS-S 203 210488-32-7, Excestar ES-S 3620
RL: POF (Polymer in formulation); TEM (Technical or engineered
material use); USES (Uses)
(curable modified siloxane- or
polysulfide-based adhesives for fixing equipments on roofs)

L39 ANSWER 15 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1998:8753 HCAPLUS Full-text

DOCUMENT NUMBER: 128:116035

ORIGINAL REFERENCE NO.: 128:22741a,22744a

TITLE: Room-temperature-curable resin
compositions with good storability, adhesives,
and related products therefrom

INVENTOR(S): Yagi, Motohiro

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 09328668	A	19971222	JP 1996-147407	1996 0610

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PRIORITY APPLN. INFO.: JP 1996-147407

1996

0610

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ED Entered STN: 08 Jan 1998

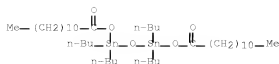
AB Title compns. and adhesives comprise epoxy compds. and oxazolidine compds. Reactive hot-melt adhesives containing the compns. and (A) thermoplastic resins and/or tackifying resins, and pressure-sensitive adhesives containing the compns., A, and (B) organic solvents are also claimed. The pressure-sensitive adhesives may comprise the compns., (C) hydrolyzable silyl group-containing resins, and (D) curing catalysts for C. Thus, 100 parts Epikote 828 (bisphenol A epoxy resin) was kneaded with 50 parts CaCO₃ and 10 parts TiO₂ under ≤20-Torr atmospheric and further kneaded with 1 part KBM 1003 (vinyltrimethoxysilane) and 132 parts Incozol 4 (bisoxazolidine) to give the claimed composition showing no change after 7 day at 50° in a can and good adhesion to a mortar piece.

IT 3669-02-1, SB 65

RL: CAT (Catalyst use); USES (Uses)
(silicone-curing catalysts; moisture-
curable epoxy resin adhesives containing oxazolidine
compds. with good storability)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
INDEX NAME)



- IC ICM C09J163-00
ICS C08G059-40
- CC 38-3 (Plastics Fabrication and Uses)
- ST moisture curable epoxy adhesive oxazolidine contg;
storage stability epoxy resin adhesive; pressure sensitive
adhesive epoxy resin; reactive hot melt epoxy resin adhesive
- IT Polyurethanes, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(epoxy-polyester-; moisture-curable epoxy resin
adhesives containing oxazolidine compds. with good storability)
- IT Polyurethanes, uses
Polyurethanes, uses
Polyurethanes, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(epoxy-polyoxyalkylene-; moisture-curable epoxy resin
adhesives containing oxazolidine compds. with good storability)
- IT Polyesters, uses
Polyoxyalkylenes, uses
Polyoxyalkylenes, uses
Polyoxyalkylenes, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(epoxy-polyurethane-; moisture-curable epoxy resin
adhesives containing oxazolidine compds. with good storability)
- IT Butadiene rubber, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)
(epoxy-terminated, BF 1000; moisture-curable epoxy
resin adhesives containing oxazolidine compds. with good
storability)
- IT Adhesives
(hot-melt, reactive; moisture-curable epoxy resin
adhesives containing oxazolidine compds. with good storability)
- IT Resin acids
RL: MOA (Modifier or additive use); PRP (Properties); TEM
(Technical or engineered material use); USES (Uses)
(hydrogenated, esters with glycerol, tackifiers; moisture-
curable epoxy resin adhesives containing oxazolidine
compds. with good storability)
- IT Adhesives
Tackifiers
(moisture-curable epoxy resin adhesives containing
oxazolidine compds. with good storability)
- IT Epoxy resins, uses
Polysiloxanes, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)
(moisture-curable epoxy resin adhesives containing
oxazolidine compds. with good storability)
- IT Polyurethanes, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP

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- (Preparation); USES (Uses)
(polyester-, epoxy; moisture-curable epoxy resin
adhesives containing oxazolidine compds. with good storability)
- IT Epoxy resins, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(polyester-polyurethane-; moisture-curable epoxy
resin adhesives containing oxazolidine compds. with good
storability)
- IT Epoxy resins, uses
Epoxy resins, uses
Epoxy resins, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(polyoxyalkylene-polyurethane-; moisture-curable
epoxy resin adhesives containing oxazolidine compds. with good
storability)
- IT Adhesives
(pressure-sensitive; moisture-curable epoxy resin
adhesives containing oxazolidine compds. with good storability)
- IT Petroleum resins
RL: MOA (Modifier or additive use); PRP (Properties); TEM
(Technical or engineered material use); USES (Uses)
(tackifiers, FTR 7125, FTR 6110; moisture-curable
epoxy resin adhesives containing oxazolidine compds. with good
storability)
- IT 9003-17-2
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)
(butadiene rubber, epoxy-terminated, BF 1000; moisture-
curable epoxy resin adhesives containing oxazolidine
compds. with good storability)
- IT 131756-18-8P, Butyl acrylate-Macromer C 4500-methyl methacrylate
copolymer 201337-87-3P, Bisphenol
A-dichloromethane-epichlorohydrin-polymethylene polyphenylene
isocyanate-polypropylene glycol copolymer 201337-88-4P,
Bisphenol A-Dynacoll 7360-epichlorohydrin-polymethylene
polyphenylene isocyanate copolymer 201337-89-5P, Butyl
acrylate-2-ethylhexyl acrylate-Macromer C 4500 copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(moisture-curable epoxy resin adhesives containing
oxazolidine compds. with good storability)
- IT 201491-23-8, Incozol 4
RL: MOA (Modifier or additive use); PRP (Properties); TEM
(Technical or engineered material use); USES (Uses)
(moisture-curable epoxy resin adhesives containing
oxazolidine compds. with good storability)
- IT 25068-38-6, Epikote 828 34590-59-5, Tactix 742 151437-95-5,
EPU 78-11 152521-71-6, Kaneka Silyl 5B25 157970-73-5, CX MH 77
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
or engineered material use); USES (Uses)
(moisture-curable epoxy resin adhesives containing
oxazolidine compds. with good storability)
- IT 3669-02-1, SB 65
RL: CAT (Catalyst use); USES (Uses)
(silicone-curing catalysts; moisture-
curable epoxy resin adhesives containing oxazolidine
compds. with good storability)
- IT 110-82-7, Cyclohexane, uses
RL: PRP (Properties); TEM (Technical or engineered material use);
USES (Uses)
(solvents; moisture-curable epoxy resin adhesives
containing oxazolidine compds. with good storability)

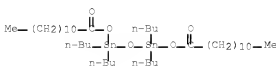
10/584,396-323714-EIC SEARCH

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L39 ANSWER 16 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1997:701720 HCAPLUS Full-text
 DOCUMENT NUMBER: 127:320099
 ORIGINAL REFERENCE NO.: 127:62721a,62724a
 TITLE: Sealing compositions for fiber-reinforced plastic hot-water tanks
 INVENTOR(S): Yamauchi, Koji; Murayama, Yukihiko
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09279122	A	19971028	JP 1996-92449	1996 0415
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PRIORITY APPLN. INFO.:			JP 1996-92449	1996 0415
			<--	

ED Entered STN: 07 Nov 1997
 AB The title comps. contain modified silicones (e.g., Excestar 3620, Excestar 3430, Excestar 2420, Kaneka MS-S 203, Kaneka MS-S 303) and hardening catalysts (e.g., SB-65).
 IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (hardening catalysts; sealing comps. for fiber-reinforced plastic hot-water tanks)
 RN 3669-02-1 HCAPLUS
 CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09J183-04
 ICS C09K003-10
 CC 42-11 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 38
 ST fiber reinforced plastic tank sealing compn; hot water plastic tank sealing compn; hardening catalyst
 polysiloxane sealing compn
 IT Crosslinking catalysts
 Sealing compositions
 (sealing comps. for fiber-reinforced plastic hot-water tanks)
 IT Polysiloxanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (sealing comps. for fiber-reinforced plastic hot-water tanks)
 IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)

10/584,396-323714-EIC SEARCH

(hardening catalysts; sealing compns. for
fiber-reinforced plastic hot-water tanks)

L39 ANSWER 17 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1997:168093 HCAPLUS Full-text
DOCUMENT NUMBER: 126:158536
ORIGINAL REFERENCE NO.: 126:30651a,30654a
TITLE: Adhesives containing modified silicone
polymers for floor materials
Yamauchi, Yasushi; Nishinaka, Koichi;
Murayama, Yukihiko
INVENTOR(S):
PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08325553	A	19961210	JP 1995-280311	1995 1027
JP 3540466	B2	20040707	JP 1995-280308	1995 1027
PRIORITY APPLN. INFO.:			JP 1995-67487	A 1995 0327

ED Entered STN: 12 Mar 1997

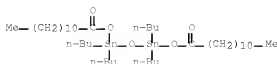
AB The adhesives mainly contain modified silicone polymers and their curing catalysts and show properties before curing of nonvolatile components ≥90%, viscosity 50,000-1,000,000 cP, and structural viscosity coefficient ≥4.0 and properties after curing of elongation at maximum load in tensile bonding test (JIS A 5758) ≥50% and permanent elongation (JIS K 6301) ≤50%. Excestar 3620 (modified silicone polymer) 100, SB 65 [bis(dibutyltin laurate) oxide] 2, dioctyl phthalate 70, Whiton P 30 (CaCO₃) 150, CCR (colloidal CaCO₃) 80, TSL 8310 (vinylsilane) 4, and TSL 8345 (aminosilane) 2 parts were vacuum kneaded to give an adhesive showing nonvolatiles 1%, viscosity 350,000, structural viscosity coefficient 5.8, elongation at maximum load 335%, and permanent elongation 5%.

IT 3669-02-1, SB 65

RL: CAT (Catalyst use); USES (Uses)
(adhesives containing modified silicone polymers and curing catalysts for floor materials)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09J183-12

CC 38-3 (Plastics Fabrication and Uses)

10/584,396-323714-EIC SEARCH

IT Polysiloxanes, uses
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (S 203; adhesives containing modified silicone polymers and
 curing catalysts for floor materials)

IT Crosslinking catalysts
 Floors
 (adhesives containing modified silicone polymers and curing
 catalysts for floor materials)

IT Polysiloxanes, uses
 Polysiloxanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (polyoxyalkylene-; adhesives containing modified silicone polymers
 and curing catalysts for floor materials)

IT Polyoxyalkylenes, uses
 Polyoxyalkylenes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (polysiloxane-; adhesives containing modified silicone
 polymers and curing catalysts for floor
 materials)

IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (adhesives containing modified silicone polymers and curing
 catalysts for floor materials)

IT 77396-40-8, S 303 170006-60-7, Excestar 2410 186912-67-4,
 Excestar 2420 186912-68-5, Excestar 3430 186912-69-6, Excestar
 3620
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (adhesives containing modified silicone polymers and curing
 catalysts for floor materials)

L39 ANSWER 18 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1996:548339 HCAPLUS Full-text

DOCUMENT NUMBER: 125:170379

ORIGINAL REFERENCE NO.: 125:31887a,31890a

TITLE: Polyether-epoxy resin blend-based adhesive
 compositions

INVENTOR(S): Futamura, Takahiro; Suematsu, Mikitoshi

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 08151563	A	19960611	JP 1995-123608	1995 0523

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PRIORITY APPLN. INFO.:	JP 1994-232990	A1
		1994 0928

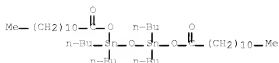
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ED Entered STN: 14 Sep 1996

AB The title comps., with good processability at any temperature, comprise polyethers
 containing reactive Si group (e.g., Silyl 5B25, Silyl 5B30) 100, epoxy resins (e.g.,
 Epikote 828XA) 30-70, colloidal lightwt. CaCO₃ (e.g., kalfain 200M) 50-120, fine
 powdered CaCO₃ (e.g., NCC-45) 10-100, heavywt. CaCO₃ (e.g., Whiton SB) 10-100,
 hydrophobic SiO₂ (e.g., Aerosil R-202) 2-10, organic Sn catalysts (e.g., SB-65) 0.5-5,
 and MePh, Cellosolve, MEK, and/or alcs. as solvents 5-50 parts.

10/584,396-323714-EIC SEARCH

IT 3669-02-1, SB-65
 RL: CAT (Catalyst use); USES (Uses)
 (polyether-epoxy resin blend-based adhesive compns.)
 RN 3669-02-1 HCAPLUS
 CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)



IC ICM C09J171-02
 ICS C09J163-00
 CC 38-3 (Plastics Fabrication and Uses)
 ST silicone polyether epoxy resin adhesive; calcium carbonate
 polyether epoxy adhesive; hydrophobic silica polyether epoxy
 adhesive; tin catalyst polyether epoxy adhesive; toluene
 solvent polyether epoxy adhesive; Cellosolve solvent polyether
 epoxy adhesive; MEK solvent polyether epoxy adhesive; alc solvent
 polyether epoxy adhesive
 IT Siloxanes and Silicones, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (polyether-, polyether-epoxy resin blend-based adhesive
 compns.)
 IT Polyethers, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (siloxane-, polyether-epoxy resin blend-based
 adhesive compns.)
 IT 3669-02-1, SB-65
 RL: CAT (Catalyst use); USES (Uses)
 (polyether-epoxy resin blend-based adhesive compns.)

L39 ANSWER 19 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1996:540642 HCAPLUS Full-text

DOCUMENT NUMBER: 125:170462

ORIGINAL REFERENCE NO.: 125:31899a,31902a

TITLE: Moisture-curable hot-melt and
 pressure-sensitive adhesives

INVENTOR(S): Suematsu, Mikitoshi

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08151562	A	19960611	JP 1994-292906	1994 1128

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PRIORITY APPLN. INFO.: JP 1994-292906

1994

1128

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10/584,396-323714-EIC SEARCH

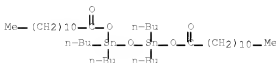
ED Entered STN: 10 Sep 1996

AB Title adhesives comprise oxyalkylene polymers terminated with ≥ 1 OH or hydrolytic silyl groups 100, organic Sn compds. 0.1-10, tackifier resins with softening point 70-130° 80-200, and ≥ 1 powdered inorg. fillers selected from Mg and Zn oxides 1-30 parts. Thus, Silyl SAT 200 100, Stann BL 0.5, FTR 6125 100, and Kyowamag 150 5 parts were mixed and kneaded at 150° to give a test piece showing good heat stability for 8 h and adhesive strength 3.2 kg/cm² after 2 h.

IT 3669-02-1, Stann SB 65
 RL: MOA (Modifier or additive use); USES (Uses)
 (moisture-curable hot-melt and pressure-sensitive adhesives containing polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09J171-02
 ICS C08G065-32; C08K003-22; C08K005-57; C08L071-02; C09J201-10

CC 38-3 (Plastics Fabrication and Uses)

ST adhesive oxyalkylene polymer hydrolytic silicone; moisture curable adhesive polyoxyalkylene tackifier; magnesium oxide pressure sensitive adhesive; zinc oxide hot melt adhesive

IT Coumarone-indene resins
 RL: MOA (Modifier or additive use); USES (Uses)
 (Escuron N 100, tackifiers; moisture-curable hot-melt and pressure-sensitive adhesives containing polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

IT Petroleum resins
 RL: MOA (Modifier or additive use); USES (Uses)
 (FTR 6125, tackifiers; moisture-curable hot-melt and pressure-sensitive adhesives containing polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

IT Crosslinking catalysts
 Tackifiers
 (moisture-curable hot-melt and pressure-sensitive adhesives containing polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

IT Polyoxyalkylenes, uses
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (siloxane-terminated; moisture-curable hot-melt and pressure-sensitive adhesives containing polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

IT Adhesives
 (hot-melt, moisture-curable hot-melt and pressure-sensitive adhesives containing polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

IT Adhesives
 (pressure-sensitive, moisture-curable hot-melt and pressure-sensitive adhesives containing polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

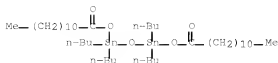
IT 1309-48-4, Kyowamag 150, uses 1314-13-2, Zinc oxide, uses
 RL: CAT (Catalyst use); USES (Uses)
 (curing catalysts; moisture-curable hot-melt and pressure-sensitive adhesives containing

polyoxyalkylenes, tin compds., tackifiers, and powdered magnesium and zinc oxides)

139 ANSWER 20 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 1996:540610 HCAPLUS Full-text
 DOCUMENT NUMBER: 125:170438
 ORIGINAL REFERENCE NO.: 125:31895a,31898a
 TITLE: Electrically conductive sealing compositions
 containing aniline polymers
 INVENTOR(S): Yamauchi, Yasushi; Nishinaka, Koichi
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PRIORITY APPLN. INFO.: JP 1994-289678

IT	3669-02-1, SB 65	
	RL: CAT (Catalyst use); USES (Uses)	
	(crosslinking catalyst; elec. conductive	
	sealing materials comprising modified polysulfides or silicones	
	containing hardeners and aniline polymers)	
RN	3669-02-1	HCAPLUS
CN	Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis-[(1-oxododecyl)oxy]-	(CA
	INDEX NAME)	



10/584,396-323714-EIC SEARCH

IC ICM C09D005-24
ICS C09D005-34; C09D179-00; C09D181-02; C09D183-04; C09K003-10;
H05K009-00

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 76

ST elec conductive sealing material resin; aniline polymer elec
conductor sealant; polyaniline elec conductor sealant resin;
modified polysulfide sealant blend polyaniline; silicone modified
sealant blend polyaniline; crosslinking agent modified
polysulfide siloxane

IT Crosslinking agents
Crosslinking catalysts
Electric conductors
(elec. conductive sealing materials comprising modified
polysulfides or silicones containing hardeners and aniline
polymers)

IT Polysulfides
Siloxanes and Silicones, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered
material use); USES (Uses)
(elec. conductive sealing materials comprising modified
polysulfides or silicones containing hardeners and aniline
polymers)

IT 143550-55-4, Permapol p 500
RL: POF (Polymer in formulation); TEM (Technical or engineered
material use); USES (Uses)
(crosslinked; elec. conductive sealing materials
comprising modified polysulfides or silicones containing hardeners
and aniline polymers)

IT 136-23-2, Sanceler bz 3669-02-1, SB 65 6843-66-9,
TSL 8172
RL: CAT (Catalyst use); USES (Uses)
(crosslinking catalyst; elec. conductive
sealing materials comprising modified polysulfides or silicones
containing hardeners and aniline polymers)

IT 14484-64-1, Nocceler ttf
RL: CAT (Catalyst use); USES (Uses)
(crosslinking catalysts; elec. conductive
sealing materials comprising modified polysulfides or silicones
containing hardeners and aniline polymers)

L39 ANSWER 21 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1996:197275 HCAPLUS Full-text

DOCUMENT NUMBER: 124:263034

ORIGINAL REFERENCE NO.: 124:48717a,48720a

TITLE: Phthalate-based plasticizers for soap- and
water-resistant sealing compositions
containing modified polysulfides or
siloxanes

INVENTOR(S): Yamauchi, Yasushi; Nishinaka, Koichi

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08003537	A	19960109	JP 1994-141448	1994 0623

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PRIORITY APPLN. INFO.: JP 1994-141448

1994

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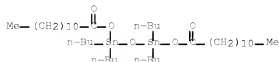
ED Entered STN: 06 Apr 1996

AB The title comps. useful for sealing buildings, ships, automobiles, etc., contain plasticizers obtained from phthalate esters of 2-propylheptanol (I) and/or 4-methyl-2-propylhexanol (II) for prolonging service life. Thus, 60 parts a plasticizer from phthalic acid and 90:10 mixture of I and II was mixed with Permapol P 500 (modified polysulfide) 100, 1:1 mixture of Nocceler TTFE and Sanceler Bz 0.6, CaCO₃ 100, TiO₂ 20, and xylene 15 parts to give a sealing composition

IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (crosslinking catalysts; phthalate-based plasticizers for soap- and water-resistant sealing comps. containing)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09K003-10

CC 38-3 (Plastics Fabrication and Uses)
 Section cross-reference(s): 37

ST phthalate plasticizer water resistant sealant; modified polysulfide sealant water resistance; siloxane sealing material phthalate plasticizer; propylheptyl phthalate plasticizer sealant; methylpropylhexyl phthalate mixt plasticizer sealant; mortar sealing material phthalate plasticizer; soap resistant sealant phthalate plasticizer

IT Crosslinking catalysts
 (for phthalate-type plasticizers for modified polysulfide or siloxane sealing materials with water resistance)

IT Sealing compositions
 (phthalate-type plasticizers for modified polysulfide or siloxane sealing materials with water resistance)

IT Polysulfides
 Siloxanes and Silicones, uses
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (phthalate-type plasticizers for modified polysulfide or siloxane sealing materials with water resistance)

IT Mortar
 (substrates; phthalate-type plasticizers for modified polysulfide or siloxane sealing materials with water resistance)

IT 136-23-2, Sanceler BZ 3669-02-1, SB 65 14484-64-1, Nocceler TTFE
 RL: CAT (Catalyst use); USES (Uses)
 (crosslinking catalysts; phthalate-based plasticizers for soap- and water-resistant sealing comps. containing)

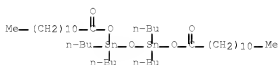
IT 6843-66-9, TSL 8172
 RL: CAT (Catalyst use); USES (Uses)
 (crosslinking co-catalysts; phthalate-based plasticizers for soap- and water-resistant sealing comps. containing)

10/584,396-323714-EIC SEARCH

ACCESSION NUMBER: 1996:115472 HCAPLUS Full-text
 DOCUMENT NUMBER: 124:292563
 ORIGINAL REFERENCE NO.: 124:54205a,54208a
 TITLE: Electrically conducting sealing compositions
 with electromagnetic shielding properties
 Yamauchi, Yasushi; Kinoshita, Tokihide;
 Nishinaka, Koichi
 INVENTOR(S):
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07310014	A	19951128	JP 1994-102640	1994 0517
JP 3550179	B2	20040804		
PRIORITY APPLN. INFO.:			JP 1994-102640	1994 0517

ED Entered STN: 24 Feb 1996
 AB The title comps. contain carbon fibers, modified polysulfides or modified silicones, and crosslinking catalysts and are used for sealing joints between panels used as electromagnetic shields. A composition containing Permapol P 500, Nocceler TTFE (ferric dimethyldithiocarbamate), Sanceler BZ, carbon fibers, and other materials showed volume resistivity 8.6 Ω -cm after curing.
 IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (catalysts; for curing of elec. conductive sealants containing carbon fibers for electromagnetic shielding)
 RN 3669-02-1 HCAPLUS
 CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C08L081-04
 ICS C08K007-06; C08L083-04; C09K003-10; H01B001-24; H05K009-00
 CC 42-11 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 76
 ST sealant carbon fiber cond electromagnetic shield; elec cond
 sealant carbon fiber; polysulfide carbon fiber sealant elec cond;
 silicone carbon fiber sealant elec cond; crosslinking
 polysulfone siloxane sealant elec cond
 IT Siloxanes and Silicones, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical
 or engineered material use); USES (Uses)
 (ESS 410; in elec. conductive sealants containing carbon fibers for
 electromagnetic shielding)
 IT Sealing compositions
 (curable polysulfide and siloxane comps.

10/584,396-323714-EIC SEARCH

containing elec. conducting carbon fibers for electromagnetic shielding)

IT Crosslinking catalysts
(for polysulfide- and siloxane-containing sealants containing carbon fibers for electromagnetic shielding)

IT Carbon fibers, uses
RL: MOA (Modifier or additive use); USES (Uses)
(in elec. conducting polysulfide- and siloxane-containing sealants for electromagnetic shielding)

IT Electric conductors
(polysulfide- and siloxane-containing sealants containing carbon fibers for electromagnetic shielding)

IT Shields
(electromagnetic, elec. conducting polysulfide- and siloxane-containing sealants containing carbon fibers for)

IT 14484-64-1, Ferric dimethyldithiocarbamate
RL: CAT (Catalyst use); USES (Uses)
(catalysts, Nocceler TIFE; for curing of elec. conductive sealants containing carbon fibers for electromagnetic shielding)

IT 136-23-2, Sanceler BZ 3669-02-1, SB 65
RL: CAT (Catalyst use); USES (Uses)
(catalysts; for curing of elec. conductive sealants containing carbon fibers for electromagnetic shielding)

IT 6843-66-9, Dimethoxydiphenylsilane
RL: MOA (Modifier or additive use); USES (Uses)
(for curing of elec. conductive sealants containing carbon fibers for electromagnetic shielding)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L39 ANSWER 23 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1996:82921 HCAPLUS Full-text
DOCUMENT NUMBER: 124:148342
ORIGINAL REFERENCE NO.: 124:27569a,27572a
TITLE: One-liquid moisture-curable modified silicone sealing compositions showing no tack after curing
INVENTOR(S): Yamauchi, Yasushi; Nishinaka, Koichi
PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 07286162	A	19951031	JP 1994-78539	1994 0418
			<--	
PRIORITY APPLN. INFO.:			JP 1994-78539	1994 0418
			<--	

ED Entered STN: 08 Feb 1996

AB The compns. contain modified silicone polymers, curing catalysts, and liquid paraffins and are useful as sealants for building materials, automobiles, and ships (no data). Excestar 2410 (modified siloxane) 100, SB 65 (SB compound) curing catalyst containing laurylamine 4, Moresco-White P-350P (liquid paraffin) 3, Diol 3000 (polypropylene glycol) 60, CaCO₃ 120, TiO₂ 20, and xylene 15 parts were mixed, kneaded, and defoamed to give title composition, which was molded and kept 2 wk at 20° and 65% relative humidity to give a tack-free sheet.

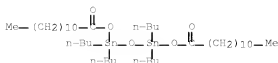
IT 3669-02-1, SB 65

10/584,396-323714-EIC SEARCH

RL: CAT (Catalyst use); USES (Uses)
 (curing catalyst; one-liquid tack-free
 moisture-curable modified silicone sealing compns.
 containing)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)



IC ICM C09K003-10

ICS C09D005-34

CC 38-3 (Plastics Fabrication and Uses)

ST modified silicone sealing compn one liq; tack free

siloxane sealant; liq paraffin siloxane sealant

IT Paraffin oils

RL: MOA (Modifier or additive use); USES (Uses)

(one-liquid tack-free sealants containing modified siloxanes
 , curing catalysts and)

IT Sealing compositions

(one-liquid; moisture-curable tack-free modified
 silicone compns. containing curing catalysts
 and liquid paraffins)

IT Crosslinking catalysts

(tin compds.; one-liquid tack-free moisture-curable
 modified silicone sealing compns. containing)

IT 124-22-1, Laurylamine 3669-02-1, SB 65

RL: CAT (Catalyst use); USES (Uses)

(curing catalyst; one-liquid tack-free
 moisture-curable modified silicone sealing compns.
 containing)

IT 170006-60-7, Excestar 2410

RL: TEM (Technical or engineered material use); USES (Uses)

(one-liquid moisture-curable tack-free sealing compns.
 containing curing catalysts and liquid paraffins)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE
 THIS RECORD (1 CITINGS)

L39 ANSWER 24 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1995:823272 HCAPLUS Full-text

DOCUMENT NUMBER: 123:342714

ORIGINAL REFERENCE NO.: 123:61495a,61498a

TITLE: One-liquid epoxy resin adhesives and adhesive
 tapes

INVENTOR(S): Horii, Kyuichi; Wakahara, Naoki

PATENT ASSIGNEE(S): Konishi Kk, Japan

SOURCE: Jpn. Kokai Tokyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

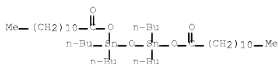
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07188634	A	19950725	JP 1993-350437	1993

10/584,396-323714-EIC SEARCH

1227

PRIORITY APPLN. INFO.: JP 1993-350437 1993
1227

ED Entered STN: 30 Sep 1995
AB The title adhesives, with good initial adhesion, comprise (a) epoxy resins, (b) ketimines R1CR2:NX1NHX2 (NHX3)mN:CR3R4, R1CR2:NR5NH:CR3R4, R6(N:CR1R1)3 [R1-4 = H, C1-6 alkyl, (alkyl-substituted) Ph; R5 = diamine residue; R6 = triamine residue; X1-3 = C2-6 alkylene; m = 0 or 1], (c) modified silicones, (d) catalysts of the silicones, and (e) tackifiers.
IT 3669-02-1, Stann SB-65
RL: CAT (Catalyst use); USES (Uses)
(one-liquid epoxy resin adhesives and adhesive tapes)
RN 3669-02-1 HCAPLUS
CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09J163-00
ICS C09J163-00; C08G059-40; C09J007-02
CC 38-3 (Plastics Fabrication and Uses)
IT Silicones and Silicones, uses
RL: MOA (Modifier or additive use); USES (Uses)
(one-liquid epoxy resin adhesives and adhesive tapes)
IT 3669-02-1, Stann SB-65
RL: CAT (Catalyst use); USES (Uses)
(one-liquid epoxy resin adhesives and adhesive tapes)
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE
THIS RECORD (2 CITINGS)

L39 ANSWER 25 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1995:804809 HCAPLUS Full-text
DOCUMENT NUMBER: 124:11078
ORIGINAL REFERENCE NO.: 124:2263a,2266a
TITLE: Curable stainproof acrylic resin
topcoating compositions containing
alkoxysilanes
INVENTOR(S): Tamai, Hitoshi; Kusumi, Akira; Ando, Naotami
PATENT ASSIGNEE(S): Kanegafuchi Chemical Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07173429	A	19950711	JP 1993-319549	1993 1220
JP 3385372	B2	20030310		

PRIORITY APPLN. INFO.: JP 1993-319549

1993

1220

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ED Entered STN: 21 Sep 1995

AB Title compns. contain (A) 100 parts acrylic copolymers substituted with SiR2a(OR1)3-a (R1 = C1-10 alkyl, Ph; R2 = H, C1-10 alkyl, aryl, aralkyl; a = 0-2), (B) 2-70 parts R4bSi(OR3)4-b (R3 = C1-10 alkyl; R4 = C1-10 alkyl, Ph, alkoxy; b = 0-2) or their partial hydrolyzates, (C) 2-70 parts alkoxysilyl-substituted acrylic polymers prepared from A and B, and (D) 0.1-20 parts curing agents. Thus, 30:45:14:10:1 Me methacrylate (I)-Bu methacrylate-Bu acrylate (II)- γ -methacryloxypropyltrimethoxysilane (III)-acrylamide copolymer 100, MSI 51 (partially condensed tetraalkoxysilane) 50, condensation product from 100 parts 40:50:10 I-II-III copolymer and 25 parts ESI 40 (partially condensed tetraalkoxysilane) 20, di(2-ethylhexyl) phosphate 0.25, and dimethylaurylamine 0.25 part were mixed, blended with CR 90, diluted to give 45%-solid composition showing good compatibility, which was sprayed on an Al plate and cured at 23° for 7 days to give a test piece showing good staining resistance.

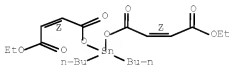
IT 13173-04-1 15546-16-4, Dibutyltinbisbutyl maleate

RL: CAT (Catalyst use); USES (Uses)
(crosslinking catalysts; antisoiling top coatings containing silyl-substituted curable acrylic resins and alkoxysilanes with compatibility)

RN 13173-04-1 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-diethyl ester (CA INDEX NAME)

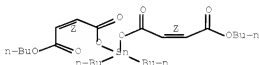
Double bond geometry as shown.



RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C09D133-04

ICS C09D183-04

CC 42-10 (Coatings, Inks, and Related Products)

ST curable acrylic resin alkoxysilyl substituted; coating
silicate blend acrylic resin; stainproof acrylic resin
alkoxysilane hydrolyzate; compatibility coating acrylic resin
silicate

IT Coating materials

Crosslinking agents

Crosslinking catalysts

(antisoiling top coatings containing silyl-substituted
curable acrylic resins and alkoxysilanes with

compatibility)
 IT Glass, oxide
 RL: MSC (Miscellaneous)
 (substrates; antisoiling top coatings containing silyl-substituted curable acrylic resins and alkoxysilanes with compatibility)
 IT Siloxanes and Silicones, uses
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (acrylic, antisoiling top coatings containing silyl-substituted curable acrylic resins and alkoxysilanes with compatibility)
 IT 112-18-5
 RL: CAT (Catalyst use); USES (Uses)
 (antisoiling top coatings containing silyl-substituted curable acrylic resins and alkoxysilanes with compatibility)
 IT 171423-52-2P 171423-53-3P 171423-54-4P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (antisoiling top coatings containing silyl-substituted curable acrylic resins and alkoxysilanes with compatibility)
 IT 298-07-7, Di(2-ethylhexyl) phosphate 13173-04-1
 15546-16-4, Dibutyltinbisbutyl maleate 29881-72-9,
 Dibutyltinbisoleyl maleate
 RL: CAT (Catalyst use); USES (Uses)
 (crosslinking catalysts; antisoiling top coatings containing silyl-substituted curable acrylic resins and alkoxysilanes with compatibility)
 OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L39 ANSWER 26 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 1995:604287 HCAPLUS Full-text
 DOCUMENT NUMBER: 123:230709
 ORIGINAL REFERENCE NO.: 123:41181a,41184a
 TITLE: Sealing compositions containing modified polysulfides or modified silicone polymers and lead powders
 INVENTOR(S): Yamauchi, Yasushi; Nishinaka, Koichi
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07062327	A	19950307	JP 1993-210432	1993 0825
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PRIORITY APPLN. INFO.:			JP 1993-210432	1993 0825
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ED Entered STN: 10 Jun 1995

AB The title sealing compns. with good sound insulating effect, useful for construction, contain (a) modified polysulfide polymers and their curing catalysts or (b) modified silicone polymers and their curing catalysts and 20-70% Pb powders. Thus, Permapol P 500 (PS) 100, 1/1 a mixture of dimethyldithiocarbamic acid Fe(1+) complex and Zn dibutyldithiocarbamate 0.6, Pb powder 60, Diol 3000 [poly(propylene glycol)] 60, and TiO2 20 parts were kneaded to give a sealing showing good sound-insulating effect,

10/584,396-323714-EIC SEARCH

elongation (JIS A 5758 test piece, aged at 20° and 30° for 2 wks., resp.) 520%, no cracking after 500 h in weatherometer, JIS A 5758 slump test 0 mm, and viscosity at 20° and 10 rpm 3+105 cps.

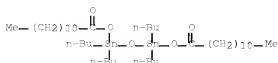
IT 3669-02-1, SB 65

RL: CAT (Catalyst use); USES (Uses)

(sealing compns. containing modified polysulfides or modified silicone polymers and lead powders for good sound insulation)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09K003-10

ICS C09D007-12; C09D175-04; C09D183-04

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 58

IT Catalysts and Catalysis

Sealing compositions

Sound insulators

(sealing compns. containing modified polysulfides or modified silicone polymers and lead powders for good sound insulation)

IT Polysulfides

Siloxanes and Silicones, uses

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(sealing compns. containing modified polysulfides or modified silicone polymers and lead powders for good sound insulation)

IT 136-23-2, Zinc dibutyldithiocarbamate 3669-02-1, SB 65

79933-20-3

RL: CAT (Catalyst use); USES (Uses)

(sealing compns. containing modified polysulfides or modified silicone polymers and lead powders for good sound insulation)

L39 ANSWER 27 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1994:437300 HCAPLUS Full-text

DOCUMENT NUMBER: 121:37300

ORIGINAL REFERENCE NO.: 121:6875a,6878a

TITLE: Epoxy resin- and silicone-based adhesive compositions

INVENTOR(S): Murase, Toshiaki; Naruhiro, Shinji

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 06001826	A	19940111	JP 1992-299718	1992 1110
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JP 3340159	B2	20021105		
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PRIORITY APPLN. INFO.:		JP 1992-104597	A1
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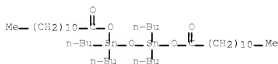
ED Entered STN: 23 Jul 1994

AB The compns. comprise silicone compds. having epoxy-reactive functional groups and reactive Si groups 100, epoxy resins 30-70, heavy CaCO₃ 20-50, organic antisagging agents 2-8, hydrophobic SiO₂ powders 5-15, organic Sn catalysts 0.5-3, and (1) fibrous inorg. fillers having aspect ratio ≥ 3 20-80 parts for cured products having high fire resistance and durability or (2) the fillers 5-50 parts and spherical inorg. fillers having grain size 30-70 μm 5-50 parts for cured products having high performance in shear and stringiness. An agent containing Silyl 5B25 (modified silicone compound) 40, Silyl 5B30 (modified silicone compound) 60, DMP 30 (curing agent) 5, Disparlon 305 (antisagging agent) 2, and Aerosil R 202 (hydrophobic SiO₂ powder) 2 parts was blended with an agent containing Epikote 828 50, SB 65 (organic Sn catalyst) 0.5, Whiton SB (heavy CaCO₃) 20, Aerosil R 202 2, and wollastonite 20 parts to show high mixing performance. The mixture was used to bond a tile to an ALC plate, and the joined materials are heated at maximum temperature 840° to show no displacement of the tile.

IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (catalysts, adhesives containing, with epoxy resins and silicones)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C08G059-18
 ICS C09J163-00

CC 38-3 (Plastics Fabrication and Uses)

ST adhesive epoxy resin silicone fireproofing; calcium carbonate adhesive epoxy silicone; antisagging agent adhesive epoxy silicone; silica hydrophobic adhesive epoxy silicone; organotin catalyst adhesive epoxy silicone; inorg filler adhesive epoxy silicone

IT Tiles
 (adhesives for, calcium carbonate and antisagging agents and silica and organic tin catalysts and inorg. fillers compns. for)

IT Siloxanes and Silicones, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (epoxy, adhesives, calcium carbonate and antisagging agents and silica and organic tin catalysts and inorg. fillers in)

IT Adhesives
 (fire-resistant, epoxy resin-silicone blends, calcium carbonate and antisagging agents and silica and organic tin catalysts and inorg. fillers in)

IT Epoxy resins, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (siloxane-, adhesives, calcium carbonate and antisagging agents and silica and organic tin catalysts and inorg. fillers in)

IT 152848-61-8
 RL: TEM (Technical or engineered material use); USES (Uses)
 (adhesives, calcium carbonate and antisagging agents and silica and organic tin catalysts and inorg. fillers in)

IT 3669-02-1, SB 65
 RL: CAT (Catalyst use); USES (Uses)

10/584,396-323714-EIC SEARCH

(catalysts, adhesives containing, with epoxy resins and silicones)

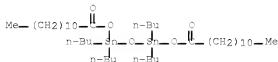
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L39 ANSWER 28 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 1994:166990 HCAPLUS Full-text
 DOCUMENT NUMBER: 120:166990
 ORIGINAL REFERENCE NO.: 120:29433a,29436a
 TITLE: One-liquid epoxy resin adhesives for floor coverings
 INVENTOR(S): Sugita, Hiroshi; Kanemura, Atsushi; Wakahara, Naoki
 PATENT ASSIGNEE(S): Konishi Kk, Japan
 SOURCE: Jpn. Kokai Tokyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05311141	A	19931122	JP 1992-139852	1992 0501

PRIORITY APPLN. INFO.: <--
 JP 1992-139852
 1992
 0501

ED Entered STN: 02 Apr 1994
 AB Adhesives contain epoxy resins, ketimines, modified silicones, and catalysts. Thus, an adhesive contained a modified silicone MS polymer 300 100, Epikote 828 35, CaCO₃ 266, a 1:1 (molar) 2,4,12,14-tetramethyl-5,8,11-triaza-4,11-pentadecadiene- styrene oxide reaction product 4, A 171 silane 3, KEM 403 2, Stann SB-65 (a Bu₂Sn compound) 2, and mineral spirit 20 parts.
 IT 3669-02-1, Stann SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (catalysts, for siloxanes, adhesive containing epoxy resins and, for floor coverings)
 RN 3669-02-1 HCAPLUS
 CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C09J163-00
 ICS C09J163-00; C09J183-04
 CC 42-11 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 38
 IT Siloxanes and Silicones, uses
 RL: USES (Uses)
 (adhesives containing epoxy resins and, for floor coverings)
 IT Epoxy resins, uses
 RL: USES (Uses)
 (adhesives, crosslinking agents for, ketimines as)

10/584,396-323714-EIC SEARCH

IT Adhesives
 (epoxy resins, crosslinking agents for, ketimines as)
 IT Crosslinking agents
 (ketimines, for epoxy resins, for adhesives)
 IT Crosslinking catalysts
 (tin compds., for siloxanes, adhesives containing epoxy
 resins and, for floor coverings)
 IT Imines
 RL: MOA (Modifier or additive use); USES (Uses)
 (ket-, crosslinking agents, for epoxy resins, for
 adhesives)
 IT 3669-02-1, Stann SB 65
 RL: CAT (Catalyst use); USES (Uses)
 (catalysts, for siloxanes, adhesive containing
 epoxy resins and, for floor coverings)
 IT 96-09-3D, Styrene oxide, reaction products with
 tetramethyltriazapentadecadiene 2426-08-6D, Butyl glycidyl
 ether, reaction products with tetramethyltriazapentadecadiene
 10595-60-5D, 2,4,12,14-Tetramethyl-5,8,11-triaza-4,11-
 pentadecadiene, reaction products with Bu glycidyl ether and
 styrene oxide
 RL: MOA (Modifier or additive use); USES (Uses)
 (crosslinking agents, for epoxy resins, for
 adhesives)

L39 ANSWER 29 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:136035 HCAPLUS Full-text

DOCUMENT NUMBER: 120:136035

ORIGINAL REFERENCE NO.: 120:23977a,23980a

TITLE: Air activated organotin catalysts
 for silicone curing and polyurethane
 preparation

AUTHOR(S): Jousseume, Bernard; Noiret, Nicolas; Pereyre,
 Michel; Saux, Annie; Frances, Jean Marc

CORPORATE SOURCE: Lab. Chim. Org. Organomet., Univ. Bordeaux I,
 Talence, F-33405, Fr.

SOURCE: Organometallics (1994), 13(3),
 1034-8
 CODEN: ORGN7; ISSN: 0276-7333

DOCUMENT TYPE: Journal
 LANGUAGE: English

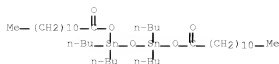
ED Entered STN: 19 Mar 1994

AB Upon exposure to air, 1,2-bis(acyloxy)tetraalkyldistannanes incorporated in mixts. of
 either silicone oils and curing agent, or of isocyanates and alcs., are oxidized to
 1,3-bis(acyloxy)tetraalkyldistannoxanes which show excellent catalytic properties for
 curing silicones or for preparing polyurethanes. Under N, they induce longer pot lives
 than the usual bis(acyloxy)dialkylstannane catalysts. Peralkylpolycyclostannanes,
 obtained either by the Pa- catalyzed decomposition of dialkylstannanes or by reduction
 of dichlorodialkylstannanes with metals, are also very good latent catalysts for
 silicone curing. When incorporated into reactive mixts. under N, they do not catalyze
 the condensation. Upon exposure to air, they are oxidized to active catalysts which
 cure silicones. These di- or polystannanes can be considered air-activated latent
 organotin catalysts.

IT 3669-02-1P
 RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP
 (Preparation); USES (Uses)
 (catalysts, prepared by air activation in-situ from
 latent precursors, for polymerization in polyurethane preparation and for
 curing of siloxanes)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)



- CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 29
- ST air activated latent organotin catalyst; oxygen
activated latent organotin catalyst; polyurethane prep
latent organotin catalyst; polymn latent organotin
catalyst polyurethane; siloxane curing
latent organotin catalyst;
bisacyloxytetraalkyldistannane latent crosslinking
catalyst; alkylpolycyclostannane latent
crosslinking catalyst
- IT Siloxanes and Silicones, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(Me hydrogen, curing of compns. containing, air-activated
latent organotin catalysts for)
- IT Siloxanes and Silicones, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(hydroxy-terminated, curing of compns. containing,
air-activated latent organotin catalysts for)
- IT Polymerization catalysts
(latent, air-activated, for preparation of polyurethanes)
- IT Crosslinking catalysts
(latent, air-activated, organotin compds., for
siloxanes)
- IT Urethane polymers, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
(polyoxyalkylene-, preparation of, air-activated latent
bis(acyloxy)tetraalkyldistannane polymerization catalysts
for)
- IT 3669-02-1P 5967-09-9P 45314-70-3P 69799-37-7P
71968-01-9P 151751-17-6P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP
(Preparation); USES (Uses)
(catalysts, prepared by air activation in-situ from
latent precursors, for polymerization in polyurethane preparation and for
curing of siloxanes)
- IT 682-01-9, Tetrapropoxysilane
RL: USES (Uses)
(hydroxy-terminated silicone oil blends, curing of,
air-activated latent organotin catalysts for)
- IT 77-58-7 1067-33-0 2781-10-4 3648-18-8 17586-94-6
24577-34-2
RL: USES (Uses)
(latent air-activated catalysts, for polymerization in
polyurethane preparation and for curing of
siloxanes)
- IT 1111-33-7P, Dodecabutylcyclohexastannane 151751-18-7P
151751-19-8P 151751-20-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(latent air-activated catalysts, preparation of, for
curing of siloxanes)
- IT 122829-85-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, air-activated latent
bis(acyloxy)tetraalkyldistannane polymerization catalysts
for)
- IT 683-18-1, Dibutylchlorostannane 3542-36-7,
Dichlorodioctylstannane

10/584,396-323714-EIC SEARCH

RL: RCT (Reactant); RACT (Reactant or reagent)
(reduction of, with metals, in preparation of latent air-activated
alkylpolycyclostannane curing catalysts for
siloxanes)

OS.CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE
THIS RECORD (23 CITINGS)

L39 ANSWER 30 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
ACCESSION NUMBER: 1991:634812 HCAPLUS Full-text
DOCUMENT NUMBER: 115:234812
ORIGINAL REFERENCE NO.: 115:40017a,40020a
TITLE: Antiblocking silicone emulsion manufacture and
use
INVENTOR(S): Li, Ping; Zhao, Guiguan; Liu, Shufen; et al.
PATENT ASSIGNEE(S): Chinese Academy of Sciences, Institute of
Chemistry, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu,
13 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 1050732	A	19910417	CN 1990-109396	1990 1127
			<--	
CN 1029001	C	19950621		
PRIORITY APPLN. INFO.:			CN 1990-109396	1990 1127
			<--	

ED Entered STN: 29 Nov 1991

AB The title emulsions, giving rubber films useful on plastics, metals and paper, contain hydroxy silicone oils, alkyl alkoxy silicone oils, organic Sn catalysts, and additives. Thus, a mixture of hydroxy silicone emulsion 2, 35% Me ethoxy silicone emulsion 0.86, 40% dioctyltin bis (octyl maleate) 0.25, 5% poly(vinyl alc.). (II) 2, and H₂O 4.89 parts was coated on II-primed paper, baked at 100° for 15 h, left at room temperature for 3 days, coated with a nondrying acrylic emulsion, baked at 140° for 20 h, a nd boned to paper to give a laminate with adhesion 8.5 g/2.5 cm.

IT 15546-16-4

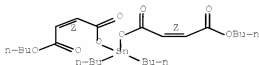
RL: USES (Uses)

(vulcanization accelerators, for silicone emulsions)

RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC ICM C09D005-02

CC 42-7 (Coatings, Inks, and Related Products)

Section cross-reference(s): 39, 43, 55, 56

ST antiblocking silicone rubber emulsion; tin

10/584,396-323714-EIC SEARCH

vulcanization accelerator; paper coating silicone emulsion;
vulcanization accelerator silicone emulsion
IT Rubber, silicone, uses and miscellaneous
RL: USES (Uses)
(emulsion coatings, antiblocking, compounding of)
IT Vulcanization accelerators and agents
(organotin compds., for silicone rubber emulsions)
IT Coating materials
(blocking-resistant, silicone rubber emulsions, compounding of)
IT 77-58-7, Dibutyltin dilaurate 3648-18-8, Dioctyltin dilaurate
15546-16-4 24396-71-2 26401-97-8 33466-31-8
52671-35-9 137378-31-5
RL: USES (Uses)
(vulcanization accelerators, for silicone emulsions)

L39 ANSWER 31 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1990:181627 HCAPLUS Full-text
DOCUMENT NUMBER: 112:181627
ORIGINAL REFERENCE NO.: 112:30711a,30714a
TITLE: Curable silicone latex compositions
for caulking
INVENTOR(S): Stein, Judith; Leonard, Tracey Mayne
PATENT ASSIGNEE(S): General Electric Co., USA
SOURCE: Eur. Pat. Appl., 4 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 344449	A2	19891206	EP 1989-107218	1989 0421
EP 344449	A3	19910116	<--	
R: BE, DE, ES, FR, GB, IT, NL, SE				
JP 02043262	A	19900213	JP 1989-136293	1989 0531
JP 07000743	B	19950111	<--	
US 5034455	A	19910723	US 1989-416340	1989 1003
CA 2018002	A1	19910406	CA 1990-2018002	1990 0531
PRIORITY APPLN. INFO.:			US 1988-200482	A 1988 0531

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

ED Entered STN: 12 May 1990

AB Curable storage-stable silicone latex compns., useful as caulking compns., comprise nonionic surfactant-stabilized silanol-terminated poly(diorganosiloxane) emulsion 100, silane crosslinker 0.1-5, nonsiliceous filler ≤50, and a Sn catalyst 0.3-2 parts. The caulking compns. exhibit superior shelf life and excellent phys. properties. A base emulsion of silanol-terminated poly(dimethylsiloxane) stabilized with polyethylene glycol ether and pH adjusted with succinic acid was mixed with CaCO₃, 0.5 g (based on

10/584,396-323714-EIC SEARCH

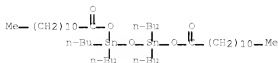
100 parts siloxane) methyltrimethoxysilane, and 0.5 g dibutyltin dilaurate, and then cured for 1 wk to give a composition showing Shore A hardness 22, tensile strength 148 psi, and strain 513%. The compns. also maintained their elongation after aging for 2 mo.

IT 3669-02-1

RL: USES (Uses)
(vulcanization accelerators, for silicone rubber compns.)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC ICM C08L083-04

ICS C08K005-57; C08K013-02

CC 42-11 (Coatings, Inks, and Related Products)

Section cross-reference(s): 39

ST silicone rubber caulk surfactant stabilizer;

silane vulcanizer silicone rubber caulk; tin

compd vulcanization accelerator rubber

IT Vulcanization accelerators and agents
(silanes and tin compds., for silicone rubber compns.)

IT Rubber, silicone, uses and miscellaneous

RL: USES (Uses)
(di-Me, latex, nonionic surfactant-stabilized, for caulking compns.)

IT Caulking compositions

(moisture-curable, nonionic surfactant-stabilized

silicone rubber as, with good phys.

properties)

IT Surfactants

(nonionic, polyoxyalkylenes, for silicone rubber compns.)

IT 25322-68-3

RL: USES (Uses)
(surfactants, nonionic, for silicone rubber compns.)

IT 77-58-7 3669-02-1 10428-21-4 14230-28-5

RL: USES (Uses)
(vulcanization accelerators, for silicone rubber compns.)

IT 1185-55-3, Methyltrimethoxysilane

RL: USES (Uses)
(vulcanizing agents, for silicone rubber compns.)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L39 ANSWER 32 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1989:499124 HCAPLUS Full-text

DOCUMENT NUMBER: 111:99124

ORIGINAL REFERENCE NO.: 111:16679a,16682a

TITLE: Shelf-stable curable silicone
caulking compositions stabilized by guanidine
derivatives

INVENTOR(S): Stein, Judith; Leonard, Tracey M.; Pratt,

10/584,396-323714-EIC SEARCH

PATENT ASSIGNEE(S): Sandra L.
 SOURCE: General Electric Co., USA
 U.S., 3 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4814368	A	19890321	US 1988-200349	1988 0531
EP 345446	A2	19891213	EP 1989-107215	1989 0421
EP 345446	A3	19910109		
R: BE, DE, ES, FR, GB, IT, NL, SE				
CA 1334454	C	19950214	CA 1989-598916	1989 0504
JP 02058591	A	19900227	JP 1989-136294	1989 0531
JP 05061316	B	19930906		
CA 1334456	C	19950214	CA 1989-602229	1989 0608
PRIORITY APPLN. INFO.:			US 1988-200349	A 1988 0531

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 111:99124

ED Entered STN: 16 Sep 1989

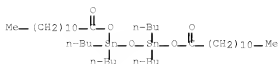
AB The title compns. contain a silanol-terminated siloxane emulsion, a silane crosslinker, a tin catalyst, a nonsiliceous filler, and a tetraalkylorganoguanidine. Mixing 1500 g silanol-terminated di-Me siloxane emulsion (50% solids) with 600 g precipitated CaCO₃, combining the mixture (100 g) with (EtO)₄Si 1.0, tetramethylbutylguanidine (I) 1.0, and [Bu₂Sn(OAc)]₂O 0.53 g gave a curable composition which was ungelled after 2 wk, vs. gelled without I.

IT 3669-02-1

RL: CAT (Catalyst use); USES (Uses)
 (catalysts, siloxane caulk containing,
 storage-stable)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA
 INDEX NAME)



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ICM C08J007-1
INCL 524158000
CC 42-11 (Coatings, Inks, and Related Products)
   Section cross-reference(s): 39
ST siloxane caulk shelf life guanidine; stabilizer
   guanidine siloxane caulk; tin catalyst
   siloxane shelf life; silane siloxane shelf life
IT Rubber, silicone, uses and miscellaneous
   RL: USES (Uses)
       (caulk containing tin catalyst and, storage-stable)
IT Caulking compositions
   (siloxane, containing tin catalyst,
   storage-stable)
IT Vulcanization accelerators and agents
   (tin compds., siloxane caulk containing, storage-stable)
IT Siloxanes and Silicones, uses and miscellaneous
   RL: USES (Uses)
       (di-Me, hydroxy-terminated, curable caulk containing,
       storage-stable)
IT 77-58-7, Dibutyltin dilaurate 1724-80-7 3669-02-1
   5967-09-9 6995-90-0 10428-19-0 10428-21-4 14230-28-5
   RL: CAT (Catalyst use); USES (Uses)
       (catalysts, siloxane caulk containing,
       storage-stable)
IT 25037-57-4, Octamethylcyclotetrasiloxane homopolymer
   RL: USES (Uses)
       (caulk containing, shelf life of, guanidine derivative for improved)
IT 471-34-1, Calcium carbonate, uses and miscellaneous
   RL: USES (Uses)
       (fillers, siloxane caulk containing, storage-stable)
IT 78-10-4, Tetraethoxysilane
   RL: USES (Uses)
       (siloxane caulk containing, storage-stable)
IT 27931-45-9
   RL: USES (Uses)
       (stabilizers, for curable siloxane caulk
       containing tin catalyst)

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139 ANSWER 33 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 1983:73396 HCAPLUS Full-text
DOCUMENT NUMBER: 98:73396
ORIGINAL REFERENCE NO.: 98:11247a,11250a
TITLE: Composition for rigid polyurethane foam
INVENTOR(S): Tsybul'ko, N. N.; Martinovich, F. S.; Satsura,
V. M.; Mandrikova, A. I.
PATENT ASSIGNEE(S): Belorussian Technological Institute, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom.
Obraztzy, Tovarnye Znaki 1982, (34), 118.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

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ED Entered STN: 12 May 1984

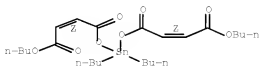
AB Polyurethane foam with good strength, flame resistance, and thermal stability is prepared from polyether polyols 60-85, tetraoxypropylated diamine 17-28, block siloxane 1.3-1.8, CC13F 25-35, H₂O 0.5-1.0, polyisocyanate 140-160, (C1CH2CH2O)3PO [115-96-8] 2-25, and a curing catalyst [N(C2H4OH)3 [102-71-6] 4-8 and Bu2Sn bis(Bu maleate) [15546-16-4] 0.1-0.5 parts].

IT 15546-16-4
RL: CAT (Catalyst use); USES (Uses)
(catalyst, for crosslinking of polyurethane foams)

RN 15546-16-4 HCAPLUS

CN 2-Butenedioic acid (2Z)-, 1,1'-(dibutylstannylene) 4,4'-dibutyl ester (CA INDEX NAME)

Double bond geometry as shown.



IC C08G018-14; C08L075-08

CC 37-6 (Plastics Manufacture and Processing)

ST polyurethane foam fire resistance; triethanolamine catalyst crosslinking; tin maleate catalyst crosslinking; catalyst crosslinking polyurethane foam; siloxane polyurethane foam

IT Siloxanes and Silicones, uses and miscellaneous
RL: USES (Uses)
(in fire-resistant polyurethane foams)

IT Crosslinking catalysts
(triethanolamine-dibutyltin bis(Bu maleate), for polyurethane foams)

IT 102-71-6, uses and miscellaneous 15546-16-4
RL: CAT (Catalyst use); USES (Uses)
(catalyst, for crosslinking of polyurethane foams)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L39 ANSWER 34 OF 36 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1972:449831 HCAPLUS Full-text

DOCUMENT NUMBER: 77:49831

ORIGINAL REFERENCE NO.: 77:8265a,8268a

TITLE: Curing silicone rubber compositions using Harada complexes as catalysts

INVENTOR(S): Leebrick, John R.

PATENT ASSIGNEE(S): Cosan Chemical Corp.

SOURCE: U.S., 3 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3661887	A	19720509	US 1970-35289	

10/584,396-323714-EIC SEARCH

1970
0506

BE 766730 A1 19711105 BE 1971-103058

1971
0505

FR 2088384 A5 19720107 FR 1971-16272

1971
0505

PRIORITY APPLN. INFO.: US 1970-35289 A

1970
0506

US 1971-130825 A

1971
0402

ED Entered STN: 12 May 1984

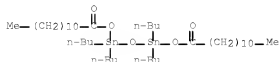
AB Harada complexes such as dimethyltin oxide-oleic acid complex (I) [35324-94-8] and dibutyltin oxide-lauric acid complex [35378-40-6] were prepared and used for the rapid curing of silicone rubbers to products having improved stability and corrosion resistance, useful as sealants. Thus, I was prepared by treating 1 mole Me₂SnO with 1 mole oleic acid at 120.deg.. RTV-60 containing 0.5% I was cured in 77 min, as compared to 99 min when using 1% dibutyltin dilaurate (II). At elevated temps., RTV-602 was cured with I in 10 min, as compared to 120 min with II.

IT 3669-02-1

RL: USES (Uses)
(vulcanization accelerators for silicone rubber from Harada)

RN 3669-02-1 HCAPLUS

CN Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)



IC C08H

INCL 260018000S

CC 38-10 (Elastomers, Including Natural Rubber)

ST crosslinking silicone rubber; Harada complex
silicone rubber; sealant silicone
rubber; tin complex crosslinking agent; oleic acid tin
complex; lauric acid tin complex

IT Vulcanization accelerators
(Harada complexes, for silicone rubber)

IT Sealing compositions
(silicone rubber, corrosion-resistant)

IT Rubber, silicone
(vulcanization of, Harada complexes as accelerators for)

IT 3669-02-1 35324-94-8

RL: USES (Uses)
(vulcanization accelerators for silicone rubber from Harada)

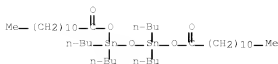
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE
THIS RECORD (3 CITINGS)

L39 ANSWER 35 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN

10/584,396-323714-EIC SEARCH

ACCESSION NUMBER: 1969:451348 HCAPLUS Full-text
 DOCUMENT NUMBER: 71:51348
 ORIGINAL REFERENCE NO.: 71:9487a,9490a
 TITLE: Room temperature hardenable organopolysiloxane elastomers
 INVENTOR(S): Neuroth, Charles G.
 PATENT ASSIGNEE(S): Stauffer Chemical Co.
 SOURCE: Ger. Offen., 22 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1803273	B2	19740228	DE 1968-1803273	1968 1016
			<--	
DE 1803273	C3	19741017		
GB 1223572	A	19710224	GB 1968-1223572	1968 0916
			<--	
FR 1585345	A	19700116	FR 1968-1585345	1968 1007
			<--	
CH 520735	A	19720331	CH 1968-520735	1968 1015
			<--	
BE 722442	A	19690417	BE 1968-722442	1968 1017
			<--	
SE 382463	B	19760202	SE 1968-14018	1968 1017
			<--	
NL 6814948	A	19690422	NL 1968-14948	1968 1018
			<--	
PRIORITY APPLN. INFO.:			US 1967-676091	A 1967 1018
			<--	
ED	Entered STN: 12 May 1984			
AB	The title compds. are prepared with the aid of a Sn-containing accelerator. Thus, a mixture of styrene 62.5, Bu acrylate 57, OH-terminated liquid poly(dimethylsiloxane) 79.7, and di-tert-Bu peroxide 0.6 part was heated 4 hrs. at 130°, the residual monomers removed, and to 50 parts of the resultant polymer were added naphtha 8, (EtO)4Si 0.5, and (Bu2SnCl)2O 0.2 part and the resultant mixture applied to a smooth surface. The resultant coating was tack-free after 20 min. Other accelerators used were Bu2Sn(OH)Cl, O(Bu2Sn)2 dilaurate, (Et2SnCl)2O, O(Bu2Sn)2 distearate, and EtSnOSnEt tetralaurate.			
IT	3669-02-1			
	RL: CAT (Catalyst use); USES (Uses) (catalysts, for curing of silicone rubber coatings)			
RN	3669-02-1 HCAPLUS			
CN	Distannoxane, 1,1,3,3-tetrabutyl-1,3-bis[(1-oxododecyl)oxy]- (CA INDEX NAME)			



IC C08G047-04A
 CC 42 (Coatings, Inks, and Related Products)
 ST polysiloxane coating curing; curing
 polysiloxane coating; tin compd accelerator; room temp
 vulcanizable elastomer
 IT Rubber, silicone
 (coatings of vinyl compds.-modified, room temperature-curable
)
 IT Coating materials
 (silicone rubber, vinyl compound-modified
 room temperature-curable)
 IT 3465-77-8 3669-02-1 10428-19-0 17973-82-9
 22058-93-1 24801-34-1
 RL: CAT (Catalyst use); USES (Uses)
 (catalysts, for curing of silicone
 rubber coatings)
 IT 100-42-5, Styrene, uses and miscellaneous 107-13-1,
 Acrylonitrile, uses and miscellaneous 141-32-2, Acrylic acid
 butyl ester
 RL: USES (Uses)
 (polymers with silicone rubber and vinyl
 compds., coatings of, room temperature-curable)

L39 ANSWER 36 OF 36 HCAPLUS COPYRIGHT 2010 ACS ON STN
 ACCESSION NUMBER: 1966:491506 HCAPLUS Full-text
 DOCUMENT NUMBER: 65:91506
 ORIGINAL REFERENCE NO.: 65:17154b-g
 TITLE: Flame-retardant compositions for polymers
 PATENT ASSIGNEE(S): Hooker Chemical Corp.
 SOURCE: 20 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

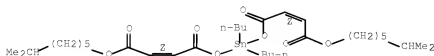
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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NL 6515354		19660526	NL 1965-15354	1965 1125
			<--	
PRIORITY APPLN. INFO.:			US	1964 1125
			<--	

ED Entered STN: 22 Apr 2001
 GI For diagram(s), see printed CA Issue.
 AB The title compns. are prepared by mixing an inflammable polymer, a flame-retardant with formula I (in which X is Cl, Br, or F; Y is Cl, Br, F, or a C1-6 alkyl or alkoxy group; and Z is a C5-18 cyclic hydrocarbon group with 1-5 condensed rings), and 0.1-3 weight% (based on flame retardant) of a color-stabilizing mixture containing ≥ 1 polyvalent metal compds. The flame retardants are Diels-Alder adducts of halogenated cyclopentadiene and have a m.p. >250°, a halogen content >40%, and a vapor pressure of <0.1 mm. at 197°. They are prepared by reaction of 2 moles halocyclopentadiene with 1 mole of a polyalkene, e.g. 1,7-octadiene, 1,5-cyclooctadiene, or cyclopentadiene. The

color stabilizers can be divided into 4 classes: (1) Mixts. of 60-40 weight% of a metal phenolate, e.g. Ba octyl- or nonylphenolate, 8-30 weight% of a phosphite, and 20-40 weight% of a polyvalent metal benzoate. (2) Mixts. of 5-60 weight% of a polyol with formula $RCH_2C(CH_2OH)_3$, in which R is a C1-30 alkyl or alkoxy group, e.g. dipentaerythritol, 5-60% of an alkyl-substituted phenol, e.g. a cresol, a phenylphenol, an octylphenol, or a naphthol, and 90-35 weight% of a salt of a polyvalent metal (e.g. Cd, Ba, or Zn) and a C6-18 monocarboxylic acid (e.g. benzoic, lauric, or stearic acid). (3) Organic Sn compds. with the formula $Sn(R_1)_1(O_2CR_3CO_2R_1)m(O_2CR_2)_2$, in which R1 and R2 are optionally substituted C1-30 hydrocarbon groups, R3 is a C1-30 hydrocarbon group containing an ethylenic double bond in the α -position to the carboxylic group, and R4 is a hydrocarbon or heterocyclic group derived from a monovalent alc. or glycol, 1 is 2 or 3, m is 1-2, and n is 0-1 ($1 + m + n = 4$), e.g. dibutyltin bis(dipropylene glycol maleate). (4) Ph_4Sn , $Sn(II)$ dicaprylate, and Ph_3SnOH . Further improvement of flame-retarding properties can be obtained by incorporation of Sb_2O_3 or another Sb compound. Thus, to mixts. of 60 parts polypropylene and 36.5 parts 1,4:7,10-dimethanocycloocta-1,2,3,4,7,8,9,10,13,13,14,14-dodecachloro-1,4,4a,5,6,6a,7,10,10a,11,12a-dodecahydro-1,2,2,5,6-dibenzene (prepared by condensation of 2 moles hexachlorocyclopentadiene and 1 mole 1,5-cyclooctadiene in xylene at $<200^\circ$) varying amts. of color stabilizers were added. The mixts. were kept in test tubes at 288° for 15 min., and the colors estimated scale running from 1 (excellent) to 9 (color of the blank). The results were: (amts. of stabilizer per 100 parts mixture and color given): Bu_2Sn bis(isooctyl maleate) (2,2 and 1,2), Bu_2Sn maleate (1,3), dibutyltin diacetate (1,4), Bu_2Sn dilaurate (2, 5, and 1, 6), mixture of $Ba(OBz)_2$ 26, $Cd(OBz)_2$ 26, $PhOH$ 5, and a polyol 5% (1,8), blank (0, 9).

- IT 99759-67-8, Tin, dibutylbis[(3-carboxyacryloyl)oxy]-, diisooctyl ester
 (olefin polymer and polyamide color-stabilized fire-resistant compns. with chlorinated condensed polycyclic compds., metal salts of organic acids and)
 RN 99759-67-8 HCAPLUS
 CN 5,7,12-Trioxa-6-stannanonadecanoic acid,
 6,6-dibutyl-18-methyl-4,8,11-trioxo-, 6-methylheptyl ester, (Z,Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



- IC C07C
 CC 48 (Plastics Technology)
 IT Siloxanes
 (methyl, encapsulation and potting compns. from α -olefins, α,ω -diolefins and, with Pt catalysts)
 IT 76-87-9, Tin, hydroxytriphenyl- 77-58-7, Tin, dibutylbis(lauroyloxy)- 595-90-4, Tin, tetraphenyl- 1067-33-0, Tin, diacetoxydibutyl- 1912-83-0, Octanoic acid, tin(II) salt 30142-56-4, Tin, tributyl[(3-carboxyacryloyl)oxy]-, isooctyl ester 99759-67-8, Tin, dibutylbis[(3-carboxyacryloyl)oxy]-, diisooctyl ester
 (olefin polymer and polyamide color-stabilized fire-resistant compns. with chlorinated condensed polycyclic compds., metal salts of organic acids and)

FULL SEARCH HISTORY

=> d his nofile

(FILE 'HOME' ENTERED AT 15:09:16 ON 04 MAR 2010)

FILE 'HCAPLUS' ENTERED AT 15:09:21 ON 04 MAR 2010

E US20070282088/PN

L1 1 SEA SPE=ON ABB=ON PLU=ON US20070282088/PN
D ALL
SEL RN

FILE 'REGISTRY' ENTERED AT 15:10:00 ON 04 MAR 2010

L2 3 SEA SPE=ON ABB=ON PLU=ON (3669-02-1/BI OR 854279-95-
1/BI OR 854279-96-2/BI)
D SCA

L3 1 SEA SPE=ON ABB=ON PLU=ON L2 AND C40 H82 O5 SN2/MF

FILE 'STNGUIDE' ENTERED AT 15:14:33 ON 04 MAR 2010

FILE 'REGISTRY' ENTERED AT 15:19:34 ON 04 MAR 2010
E C28H70010SN/MF

FILE 'STNGUIDE' ENTERED AT 15:19:46 ON 04 MAR 2010

FILE 'REGISTRY' ENTERED AT 15:22:54 ON 04 MAR 2010
E C22H43010SN/MF

FILE 'LREGISTRY' ENTERED AT 15:24:23 ON 04 MAR 2010

FILE 'LREGISTRY' ENTERED AT 15:24:50 ON 04 MAR 2010
STR

L4

FILE 'REGISTRY' ENTERED AT 15:49:12 ON 04 MAR 2010
E C36H42012SN/MF

L5 4 SEA SSS SAM L4
D SCA

L6 73 SEA SSS FUL L4
SAV TEMP L6 LOE396REG/A

L7 1 SEA SPE=ON ABB=ON PLU=ON L2 AND L6
D SCA

L8 73 SEA SPE=ON ABB=ON PLU=ON L7 OR L6

L9 74 SEA SPE=ON ABB=ON PLU=ON L8 OR L3

FILE 'REGISTRY' ENTERED AT 15:54:27 ON 04 MAR 2010
D QUE STAT L6

FILE 'LREGISTRY' ENTERED AT 15:55:33 ON 04 MAR 2010
STR L4

L10

FILE 'REGISTRY' ENTERED AT 15:56:14 ON 04 MAR 2010

L11 2 SEA SUB=L6 SSS SAM L10
D SCA

L12 26 SEA SUB=L6 SSS FUL L10

L13 1 SEA SPE=ON ABB=ON PLU=ON L2 AND L12
D SCA

L14 27 SEA SPE=ON ABB=ON PLU=ON L3 OR L12
SAV TEMP L14 LOE396REG/A

L15 2 SEA SPE=ON ABB=ON PLU=ON L3 OR L13

FILE 'HCAPLUS' ENTERED AT 15:59:01 ON 04 MAR 2010

L16 76 SEA SPE=ON ABB=ON PLU=ON L15

L17 272 SEA SPE=ON ABB=ON PLU=ON L14

L18 272 SEA SPE=ON ABB=ON PLU=ON L16 OR L17
D L1 PRAI

L19 1 SEA SPE=ON ABB=ON PLU=ON L1 AND L18

10/584,396-323714-EIC SEARCH

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D SCA
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L21 QUE SPE=ON ABB=ON PLU=ON (PY=<2004 OR PRY=<2004 OR
AY=<2004 OR MY=<2004 OR REVIEW/DT) AND P/DT
L22 253 SEA SPE=ON ABB=ON PLU=ON L18 AND ((L20 OR L21))
L23 82 SEA SPE=ON ABB=ON PLU=ON L22 (L) (CAT OR CATAL?)
L24 QUE SPE=ON ABB=ON PLU=ON ?SILOXAN?
L25 35 SEA SPE=ON ABB=ON PLU=ON L23 AND L24
L26 QUE SPE=ON ABB=ON PLU=ON POLYMI? OR CURE# OR
CURING# OR CURAB? OR CROSS(W) LINK? OR CROSSLINK?
L27 67 SEA SPE=ON ABB=ON PLU=ON L22 (L) L26
L28 QUE SPE=ON ABB=ON PLU=ON SILICON?(3A) (RUBBER OR
ELASTOMER)
L29 6 SEA SPE=ON ABB=ON PLU=ON L23 AND L28
L30 53 SEA SPE=ON ABB=ON PLU=ON L27 AND L23
L31 1 SEA SPE=ON ABB=ON PLU=ON L1 AND L25
L32 32 SEA SPE=ON ABB=ON PLU=ON L25 AND L30
L33 37 SEA SPE=ON ABB=ON PLU=ON L25 OR L32 OR L29
L34 1 SEA SPE=ON ABB=ON PLU=ON L33 AND L1
D AU
SAV TEMP L33 LOE396HCP/A
D PRAI
DEL SEL
SEL L34 AU
L35 40 SEA SPE=ON ABB=ON PLU=ON ("CHAUSSADE, MARC"/AU OR
"GUENNOUNI, NATHALIE"/AU)
L36 QUE SPE=ON ABB=ON PLU=ON CHAUGSADE M?/AU
L37 QUE SPE=ON ABB=ON PLU=ON GUENNOUNI N?/AU
L38 1 SEA SPE=ON ABB=ON PLU=ON L33 AND ((L35 OR L36 OR
L37))
L39 36 SEA SPE=ON ABB=ON PLU=ON L33 NOT L38

FILE 'REGISTRY' ENTERED AT 16:13:05 ON 04 MAR 2010
D L15 1-2

FILE 'HCAPLUS' ENTERED AT 16:14:37 ON 04 MAR 2010
D QUE L33
D L38 1 IBIB ED ABS HITSTR HITIND
D L39 1-36 IBIB ED ABS HITSTR HITIND

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